

# APPENDIX I: Table 2

ATOM	1	C	GLY A 209	19.842	27.436	87.516	1.00100.00	A
ATOM	2	O	GLY A 209	20.592	28.102	86.789	1.00100.00	A
ATOM	3	N	GLY A 209	18.621	29.535	88.021	1.00100.00	A
ATOM	4	CA	GLY A 209	18.545	28.041	88.013	1.00100.00	A
ATOM	5	N	HIS A 210	20.109	26.185	87.905	1.00100.00	A
ATOM	6	CA	HIS A 210	21.335	25.482	87.500	1.00100.00	A
ATOM	7	CB	HIS A 210	21.598	24.270	88.417	1.00100.00	A
ATOM	8	CG	HIS A 210	20.677	23.109	88.184	1.00100.00	A
ATOM	9	CD2	HIS A 210	20.927	21.831	87.810	1.00100.00	A
ATOM	10	ND1	HIS A 210	19.304	23.198	88.335	1.00100.00	A
ATOM	11	CE1	HIS A 210	18.756	22.022	88.062	1.00 99.69	A
ATOM	12	NE2	HIS A 210	19.719	21.181	87.742	1.00100.00	A
ATOM	13	C	HIS A 210	21.234	25.008	86.049	1.00 98.39	A
ATOM	14	O	HIS A 210	22.122	24.310	85.548	1.00100.00	A
ATOM	15	N	LYS A 211	20.153	25.419	85.385	1.00 92.60	A
ATOM	16	CA	LYS A 211	19.872	25.045	84.009	1.00 80.23	A
ATOM	17	CB	LYS A 211	20.953	25.587	83.064	1.00 81.09	A
ATOM	18	CG	LYS A 211	20.883	27.107	82.852	1.00 84.10	A
ATOM	19	CD	LYS A 211	21.776	27.581	81.702	1.00 91.38	A
ATOM	20	CE	LYS A 211	21.498	29.041	81.330	1.00 93.89	A
ATOM	21	NZ	LYS A 211	22.309	29.516	80.158	1.00 93.49	A
ATOM	22	C	LYS A 211	19.782	23.528	83.945	1.00 74.63	A
ATOM	23	O	LYS A 211	20.774	22.838	83.717	1.00 74.40	A
ATOM	24	N	PRO A 212	18.572	22.990	84.152	1.00 70.09	A
ATOM	25	CD	PRO A 212	17.321	23.767	84.229	1.00 65.80	A
ATOM	26	CA	PRO A 212	18.282	21.556	84.137	1.00 69.15	A
ATOM	27	CB	PRO A 212	16.842	21.500	84.617	1.00 71.03	A
ATOM	28	CG	PRO A 212	16.259	22.713	83.955	1.00 69.69	A
ATOM	29	C	PRO A 212	18.438	20.912	82.765	1.00 68.96	A
ATOM	30	O	PRO A 212	18.182	21.522	81.726	1.00 64.38	A
ATOM	31	N	GLU A 213	18.851	19.657	82.784	1.00 67.37	A
ATOM	32	CA	GLU A 213	19.047	18.899	81.574	1.00 65.64	A
ATOM	33	CB	GLU A 213	20.404	18.212	81.675	1.00 68.72	A
ATOM	34	CG	GLU A 213	21.497	19.252	81.433	1.00 73.02	A
ATOM	35	CD	GLU A 213	22.855	18.890	81.978	1.00 74.27	A
ATOM	36	OE1	GLU A 213	23.149	17.682	82.120	1.00 75.96	A
ATOM	37	OE2	GLU A 213	23.634	19.836	82.245	1.00 71.17	A
ATOM	38	C	GLU A 213	17.871	17.942	81.358	1.00 61.34	A
ATOM	39	O	GLU A 213	17.009	17.819	82.214	1.00 59.49	A

ATOM	40	N	PRO A 214	17.799	17.275	80.200	1.00	59.05	A
ATOM	41	CD	PRO A 214	18.670	17.342	79.012	1.00	56.85	A
ATOM	42	CA	PRO A 214	16.674	16.366	79.971	1.00	57.05	A
ATOM	43	CB	PRO A 214	17.072	15.649	78.681	1.00	53.15	A
ATOM	44	CG	PRO A 214	17.809	16.708	77.942	1.00	57.11	A
ATOM	45	C	PRO A 214	16.243	15.395	81.078	1.00	52.03	A
ATOM	46	O	PRO A 214	17.041	14.799	81.794	1.00	50.49	A
ATOM	47	N	THR A 215	14.938	15.248	81.193	1.00	50.36	A
ATOM	48	CA	THR A 215	14.360	14.353	82.157	1.00	50.08	A
ATOM	49	CB	THR A 215	13.000	14.881	82.563	1.00	50.12	A
ATOM	50	OG1	THR A 215	12.061	14.711	81.488	1.00	49.90	A
ATOM	51	CG2	THR A 215	13.135	16.347	82.903	1.00	38.31	A
ATOM	52	C	THR A 215	14.227	12.993	81.484	1.00	52.86	A
ATOM	53	O	THR A 215	14.344	12.888	80.258	1.00	53.31	A
ATOM	54	N	ASP A 216	13.986	11.951	82.266	1.00	50.48	A
ATOM	55	CA	ASP A 216	13.863	10.631	81.675	1.00	55.74	A
ATOM	56	CB	ASP A 216	13.380	9.635	82.713	1.00	58.24	A
ATOM	57	CG	ASP A 216	14.486	9.199	83.645	1.00	65.37	A
ATOM	58	OD1	ASP A 216	15.415	10.012	83.867	1.00	70.65	A
ATOM	59	OD2	ASP A 216	14.424	8.055	84.155	1.00	70.93	A
ATOM	60	C	ASP A 216	12.925	10.622	80.485	1.00	57.72	A
ATOM	61	O	ASP A 216	13.249	10.083	79.430	1.00	55.07	A
ATOM	62	N	GLU A 217	11.764	11.242	80.637	1.00	62.05	A
ATOM	63	CA	GLU A 217	10.801	11.249	79.547	1.00	63.75	A
ATOM	64	CB	GLU A 217	9.423	11.643	80.083	1.00	68.61	A
ATOM	65	CG	GLU A 217	8.818	12.872	79.455	1.00	88.71	A
ATOM	66	CD	GLU A 217	7.506	13.276	80.117	1.00	96.03	A
ATOM	67	OE1	GLU A 217	7.044	14.412	79.864	1.00	99.67	A
ATOM	68	OE2	GLU A 217	6.936	12.460	80.882	1.00	100.00	A
ATOM	69	C	GLU A 217	11.235	12.145	78.390	1.00	59.96	A
ATOM	70	O	GLU A 217	10.938	11.860	77.228	1.00	52.77	A
ATOM	71	N	GLU A 218	11.954	13.219	78.695	1.00	55.04	A
ATOM	72	CA	GLU A 218	12.407	14.097	77.637	1.00	48.55	A
ATOM	73	CB	GLU A 218	12.961	15.370	78.211	1.00	41.86	A
ATOM	74	CG	GLU A 218	11.893	16.151	78.869	1.00	53.80	A
ATOM	75	CD	GLU A 218	12.351	17.520	79.250	1.00	55.72	A
ATOM	76	OE1	GLU A 218	13.374	17.607	79.963	1.00	55.23	A
ATOM	77	OE2	GLU A 218	11.685	18.495	78.839	1.00	51.80	A
ATOM	78	C	GLU A 218	13.463	13.401	76.818	1.00	49.92	A
ATOM	79	O	GLU A 218	13.441	13.480	75.584	1.00	44.71	A
ATOM	80	N	TRP A 219	14.389	12.717	77.500	1.00	47.88	A

ATOM	81	CA	TRP	A	219	15.436	12.000	76.787	1.00	42.60	A
ATOM	82	CB	TRP	A	219	16.355	11.243	77.745	1.00	40.26	A
ATOM	83	CG	TRP	A	219	17.506	12.057	78.239	1.00	41.12	A
ATOM	84	CD2	TRP	A	219	18.567	12.634	77.453	1.00	43.77	A
ATOM	85	CE2	TRP	A	219	19.406	13.356	78.343	1.00	40.74	A
ATOM	86	CE3	TRP	A	219	18.891	12.617	76.086	1.00	44.52	A
ATOM	87	CD1	TRP	A	219	17.736	12.431	79.521	1.00	41.22	A
ATOM	88	NE1	TRP	A	219	18.874	13.211	79.598	1.00	44.86	A
ATOM	89	CZ2	TRP	A	219	20.552	14.060	77.917	1.00	35.23	A
ATOM	90	CZ3	TRP	A	219	20.033	13.312	75.653	1.00	44.53	A
ATOM	91	CH2	TRP	A	219	20.849	14.027	76.575	1.00	46.32	A
ATOM	92	C	TRP	A	219	14.769	11.028	75.827	1.00	44.77	A
ATOM	93	O	TRP	A	219	15.220	10.871	74.692	1.00	43.62	A
ATOM	94	N	GLU	A	220	13.686	10.389	76.263	1.00	40.96	A
ATOM	95	CA	GLU	A	220	12.993	9.461	75.385	1.00	42.52	A
ATOM	96	CB	GLU	A	220	11.846	8.767	76.132	1.00	46.20	A
ATOM	97	CG	GLU	A	220	10.888	7.944	75.250	1.00	51.93	A
ATOM	98	CD	GLU	A	220	11.576	6.796	74.493	1.00	60.77	A
ATOM	99	OE1	GLU	A	220	12.260	5.960	75.141	1.00	66.44	A
ATOM	100	OE2	GLU	A	220	11.422	6.722	73.246	1.00	55.93	A
ATOM	101	C	GLU	A	220	12.460	10.213	74.159	1.00	44.06	A
ATOM	102	O	GLU	A	220	12.600	9.749	73.021	1.00	45.71	A
ATOM	103	N	LEU	A	221	11.860	11.383	74.390	1.00	41.83	A
ATOM	104	CA	LEU	A	221	11.314	12.187	73.300	1.00	40.90	A
ATOM	105	CB	LEU	A	221	10.583	13.413	73.859	1.00	37.53	A
ATOM	106	CG	LEU	A	221	9.945	14.382	72.858	1.00	38.96	A
ATOM	107	CD1	LEU	A	221	8.880	13.679	72.036	1.00	21.93	A
ATOM	108	CD2	LEU	A	221	9.349	15.556	73.612	1.00	38.58	A
ATOM	109	C	LEU	A	221	12.450	12.612	72.360	1.00	44.31	A
ATOM	110	O	LEU	A	221	12.347	12.487	71.138	1.00	43.83	A
ATOM	111	N	ILE	A	222	13.541	13.100	72.932	1.00	47.48	A
ATOM	112	CA	ILE	A	222	14.689	13.488	72.125	1.00	48.41	A
ATOM	113	CB	ILE	A	222	15.844	13.980	73.013	1.00	45.73	A
ATOM	114	CG2	ILE	A	222	17.057	14.297	72.157	1.00	44.26	A
ATOM	115	CG1	ILE	A	222	15.394	15.227	73.786	1.00	41.26	A
ATOM	116	CD1	ILE	A	222	16.237	15.557	74.994	1.00	37.00	A
ATOM	117	C	ILE	A	222	15.174	12.321	71.243	1.00	49.07	A
ATOM	118	O	ILE	A	222	15.480	12.536	70.068	1.00	51.55	A
ATOM	119	N	LYS	A	223	15.237	11.099	71.776	1.00	40.55	A
ATOM	120	CA	LYS	A	223	15.690	9.986	70.937	1.00	49.85	A
ATOM	121	CB	LYS	A	223	15.768	8.659	71.696	1.00	50.32	A

ATOM	122	CG	LYS A 223	14.629	7.719	71.323	1.00	54.08	A
ATOM	123	CD	LYS A 223	14.810	6.314	71.823	1.00	60.02	A
ATOM	124	CE	LYS A 223	15.535	5.471	70.801	1.00	67.34	A
ATOM	125	NZ	LYS A 223	15.359	4.007	71.082	1.00	67.53	A
ATOM	126	C	LYS A 223	14.711	9.788	69.798	1.00	49.79	A
ATOM	127	O	LYS A 223	15.090	9.530	68.658	1.00	52.22	A
ATOM	128	N	THR A 224	13.435	9.899	70.119	1.00	46.14	A
ATOM	129	CA	THR A 224	12.427	9.700	69.107	1.00	46.64	A
ATOM	130	CB	THR A 224	11.030	9.730	69.732	1.00	45.74	A
ATOM	131	OG1	THR A 224	10.936	8.673	70.693	1.00	50.87	A
ATOM	132	CG2	THR A 224	9.958	9.556	68.668	1.00	37.71	A
ATOM	133	C	THR A 224	12.524	10.722	67.982	1.00	45.42	A
ATOM	134	O	THR A 224	12.444	10.350	66.805	1.00	41.89	A
ATOM	135	N	VAL A 225	12.723	11.993	68.333	1.00	42.16	A
ATOM	136	CA	VAL A 225	12.793	13.035	67.315	1.00	44.15	A
ATOM	137	CB	VAL A 225	12.778	14.457	67.888	1.00	42.85	A
ATOM	138	CG1	VAL A 225	12.086	15.378	66.903	1.00	43.65	A
ATOM	139	CG2	VAL A 225	12.104	14.487	69.211	1.00	54.82	A
ATOM	140	C	VAL A 225	14.049	12.921	66.490	1.00	44.95	A
ATOM	141	O	VAL A 225	13.998	13.046	65.265	1.00	44.35	A
ATOM	142	N	THR A 226	15.175	12.678	67.153	1.00	41.83	A
ATOM	143	CA	THR A 226	16.424	12.575	66.433	1.00	37.04	A
ATOM	144	CB	THR A 226	17.588	12.308	67.377	1.00	37.47	A
ATOM	145	OG1	THR A 226	17.582	13.293	68.414	1.00	43.43	A
ATOM	146	CG2	THR A 226	18.912	12.410	66.621	1.00	39.23	A
ATOM	147	C	THR A 226	16.321	11.472	65.388	1.00	42.30	A
ATOM	148	O	THR A 226	16.665	11.685	64.223	1.00	43.28	A
ATOM	149	N	GLU A 227	15.828	10.303	65.788	1.00	44.04	A
ATOM	150	CA	GLU A 227	15.668	9.203	64.849	1.00	42.56	A
ATOM	151	CB	GLU A 227	15.054	8.006	65.549	1.00	44.69	A
ATOM	152	CG	GLU A 227	15.941	7.424	66.618	1.00	55.97	A
ATOM	153	CD	GLU A 227	15.334	6.188	67.249	1.00	63.29	A
ATOM	154	OE1	GLU A 227	14.146	6.240	67.650	1.00	66.18	A
ATOM	155	OE2	GLU A 227	16.048	5.170	67.346	1.00	65.20	A
ATOM	156	C	GLU A 227	14.798	9.617	63.655	1.00	44.16	A
ATOM	157	O	GLU A 227	15.149	9.365	62.499	1.00	42.07	A
ATOM	158	N	ALA A 228	13.664	10.259	63.920	1.00	39.77	A
ATOM	159	CA	ALA A 228	12.792	10.697	62.829	1.00	40.86	A
ATOM	160	CB	ALA A 228	11.621	11.493	63.377	1.00	28.20	A
ATOM	161	C	ALA A 228	13.589	11.561	61.853	1.00	44.15	A
ATOM	162	O	ALA A 228	13.460	11.430	60.630	1.00	40.27	A

ATOM	163	N	HIS	A	229	14.422	12.436	62.416	1.00	43.92	A
ATOM	164	CA	HIS	A	229	15.237	13.341	61.629	1.00	42.10	A
ATOM	165	CB	HIS	A	229	15.851	14.417	62.516	1.00	42.84	A
ATOM	166	CG	HIS	A	229	16.790	15.331	61.788	1.00	43.01	A
ATOM	167	CD2	HIS	A	229	18.025	15.776	62.100	1.00	36.93	A
ATOM	168	ND1	HIS	A	229	16.473	15.901	60.571	1.00	40.82	A
ATOM	169	CE1	HIS	A	229	17.479	16.658	60.168	1.00	30.75	A
ATOM	170	NE2	HIS	A	229	18.432	16.598	61.081	1.00	36.09	A
ATOM	171	C	HIS	A	229	16.334	12.636	60.877	1.00	39.73	A
ATOM	172	O	HIS	A	229	16.431	12.760	59.666	1.00	46.79	A
ATOM	173	N	VAL	A	230	17.169	11.900	61.587	1.00	42.69	A
ATOM	174	CA	VAL	A	230	18.269	11.186	60.933	1.00	46.19	A
ATOM	175	CB	VAL	A	230	19.086	10.361	61.953	1.00	41.12	A
ATOM	176	CG1	VAL	A	230	20.252	9.687	61.261	1.00	37.52	A
ATOM	177	CG2	VAL	A	230	19.593	11.274	63.060	1.00	40.96	A
ATOM	178	C	VAL	A	230	17.782	10.269	59.796	1.00	46.24	A
ATOM	179	O	VAL	A	230	18.335	10.284	58.692	1.00	48.71	A
ATOM	180	N	ALA	A	231	16.733	9.503	60.059	1.00	40.49	A
ATOM	181	CA	ALA	A	231	16.172	8.606	59.065	1.00	39.92	A
ATOM	182	CB	ALA	A	231	15.049	7.787	59.693	1.00	43.26	A
ATOM	183	C	ALA	A	231	15.648	9.309	57.820	1.00	45.57	A
ATOM	184	O	ALA	A	231	15.684	8.757	56.725	1.00	50.72	A
ATOM	185	N	THR	A	232	15.146	10.525	57.973	1.00	52.23	A
ATOM	186	CA	THR	A	232	14.595	11.218	56.821	1.00	50.30	A
ATOM	187	CB	THR	A	232	13.192	11.769	57.115	1.00	53.75	A
ATOM	188	OG1	THR	A	232	13.285	12.859	58.042	1.00	55.35	A
ATOM	189	CG2	THR	A	232	12.301	10.646	57.709	1.00	53.20	A
ATOM	190	C	THR	A	232	15.471	12.335	56.334	1.00	48.60	A
ATOM	191	O	THR	A	232	15.072	13.069	55.448	1.00	43.93	A
ATOM	192	N	ASN	A	233	16.666	12.453	56.912	1.00	53.02	A
ATOM	193	CA	ASN	A	233	17.671	13.238	56.205	1.00	63.92	A
ATOM	194	CB	ASN	A	233	18.960	13.247	57.033	1.00	62.24	A
ATOM	195	CG	ASN	A	233	19.313	14.667	57.405	1.00	71.21	A
ATOM	196	OD1	ASN	A	233	18.516	15.593	57.268	1.00	79.58	A
ATOM	197	ND2	ASN	A	233	20.540	14.829	57.931	1.00	72.24	A
ATOM	198	C	ASN	A	233	17.937	12.654	54.820	1.00	70.00	A
ATOM	199	O	ASN	A	233	17.775	11.466	54.574	1.00	83.11	A
ATOM	200	N	ALA	A	234	18.299	13.542	53.876	1.00	86.19	A
ATOM	201	CA	ALA	A	234	18.557	13.050	52.530	1.00	90.30	A
ATOM	202	CB	ALA	A	234	19.029	14.223	51.670	1.00	89.67	A
ATOM	203	C	ALA	A	234	19.623	11.957	52.558	1.00	93.23	A

ATOM	204	O	ALA A 234	19.356	10.785	52.329	1.00	94.35	A
ATOM	205	N	GLN A 235	20.879	12.381	52.800	1.00	95.81	A
ATOM	206	CA	GLN A 235	21.849	11.328	53.058	1.00	98.94	A
ATOM	207	CB	GLN A 235	23.109	11.708	52.281	1.00	99.69	A
ATOM	208	CG	GLN A 235	23.075	13.170	51.822	1.00	100.91	A
ATOM	209	CD	GLN A 235	24.480	13.669	51.569	1.00	102.38	A
ATOM	210	OE1	GLN A 235	25.227	13.154	50.756	1.00	102.38	A
ATOM	211	NE2	GLN A 235	24.816	14.747	52.305	1.00	102.07	A
ATOM	212	C	GLN A 235	22.184	11.256	54.546	1.00	100.54	A
ATOM	213	O	GLN A 235	22.693	10.275	55.065	1.00	101.77	A
ATOM	214	N	GLY A 236	21.899	12.377	55.217	1.00	100.00	A
ATOM	215	CA	GLY A 236	22.611	12.630	56.446	1.00	100.00	A
ATOM	216	C	GLY A 236	24.103	12.733	56.129	1.00	100.00	A
ATOM	217	O	GLY A 236	24.508	12.938	54.994	1.00	100.00	A
ATOM	218	N	SER A 237	24.756	13.415	57.077	1.00	100.00	A
ATOM	219	CA	SER A 237	25.675	14.460	56.657	1.00	100.00	A
ATOM	220	CB	SER A 237	25.906	15.395	57.844	1.00	100.00	A
ATOM	221	OG	SER A 237	24.675	16.032	58.187	1.00	100.00	A
ATOM	222	C	SER A 237	27.003	13.881	56.189	1.00	100.00	A
ATOM	223	O	SER A 237	28.035	14.028	56.830	1.00	97.74	A
ATOM	224	N	HIS A 238	26.977	13.593	54.874	1.00	100.00	A
ATOM	225	CA	HIS A 238	28.215	13.277	54.178	1.00	100.00	A
ATOM	226	CB	HIS A 238	28.464	11.771	54.296	1.00	100.00	A
ATOM	227	CG	HIS A 238	28.067	11.079	53.015	1.00	100.00	A
ATOM	228	CD2	HIS A 238	27.617	9.765	52.845	1.00	100.00	A
ATOM	229	ND1	HIS A 238	28.140	11.669	51.797	1.00	100.00	A
ATOM	230	CE1	HIS A 238	27.747	10.729	50.914	1.00	100.00	A
ATOM	231	NE2	HIS A 238	27.425	9.579	51.513	1.00	100.00	A
ATOM	232	C	HIS A 238	28.150	13.694	52.710	1.00	100.00	A
ATOM	233	O	HIS A 238	28.464	12.928	51.809	1.00	100.00	A
ATOM	234	N	TRP A 239	27.637	14.939	52.567	1.00	100.00	A
ATOM	235	CA	TRP A 239	27.844	15.720	51.327	1.00	100.00	A
ATOM	236	CB	TRP A 239	27.046	17.026	51.331	1.00	100.00	A
ATOM	237	CG	TRP A 239	26.548	17.352	52.680	1.00	99.59	A
ATOM	238	CD2	TRP A 239	26.980	18.451	53.524	1.00	97.63	A
ATOM	239	CE2	TRP A 239	26.257	18.344	54.743	1.00	98.08	A
ATOM	240	CE3	TRP A 239	27.887	19.497	53.357	1.00	91.26	A
ATOM	241	CD1	TRP A 239	25.564	16.651	53.400	1.00	100.00	A
ATOM	242	NE1	TRP A 239	25.426	17.241	54.625	1.00	100.00	A
ATOM	243	CZ2	TRP A 239	26.478	19.262	55.760	1.00	93.85	A
ATOM	244	CZ3	TRP A 239	28.106	20.413	54.376	1.00	92.96	A

ATOM	245	CH2	TRP	A	239	27.392	20.297	55.584	1.00	91.22	A
ATOM	246	C	TRP	A	239	29.320	16.011	51.076	1.00	100.00	A
ATOM	247	O	TRP	A	239	29.811	17.132	51.064	1.00	98.02	A
ATOM	248	N	LYS	A	240	30.008	14.901	50.923	1.00	99.03	A
ATOM	249	CA	LYS	A	240	31.435	14.814	50.691	1.00	100.00	A
ATOM	250	CB	LYS	A	240	32.055	14.486	52.049	1.00	100.00	A
ATOM	251	CG	LYS	A	240	33.400	15.170	52.267	1.00	100.00	A
ATOM	252	CD	LYS	A	240	34.567	14.195	52.116	1.00	98.65	A
ATOM	253	CE	LYS	A	240	35.765	14.837	51.411	1.00	95.10	A
ATOM	254	NZ	LYS	A	240	35.377	16.143	50.882	1.00	86.41	A
ATOM	255	C	LYS	A	240	31.727	13.658	49.708	1.00	100.00	A
ATOM	256	O	LYS	A	240	32.595	13.741	48.848	1.00	100.00	A
ATOM	257	N	ALA	A	241	30.958	12.561	49.806	1.00	100.00	A
ATOM	258	CA	ALA	A	241	30.975	11.572	48.745	1.00	100.00	A
ATOM	259	CB	ALA	A	241	31.181	10.195	49.377	1.00	99.62	A
ATOM	260	C	ALA	A	241	29.656	11.600	47.973	1.00	100.00	A
ATOM	261	O	ALA	A	241	29.151	10.582	47.518	1.00	100.00	A
ATOM	262	N	LYS	A	242	29.048	12.780	47.834	1.00	100.00	A
ATOM	263	CA	LYS	A	242	27.768	12.886	47.145	1.00	100.00	A
ATOM	264	CB	LYS	A	242	26.619	12.778	48.157	1.00	100.00	A
ATOM	265	CG	LYS	A	242	25.502	11.844	47.707	1.00	100.00	A
ATOM	266	CD	LYS	A	242	24.830	12.346	46.431	1.00	100.00	A
ATOM	267	CE	LYS	A	242	24.335	11.193	45.566	1.00	100.00	A
ATOM	268	NZ	LYS	A	242	25.461	10.369	45.030	1.00	100.00	A
ATOM	269	C	LYS	A	242	27.592	14.156	46.307	1.00	100.00	A
ATOM	270	O	LYS	A	242	27.528	14.090	45.078	1.00	100.00	A
ATOM	271	N	ARG	A	243	27.512	15.305	46.968	1.00	100.00	A
ATOM	272	CA	ARG	A	243	27.305	16.574	46.270	1.00	100.00	A
ATOM	273	CB	ARG	A	243	27.309	17.728	47.281	1.00	99.48	A
ATOM	274	CG	ARG	A	243	28.384	17.599	48.336	1.00	99.82	A
ATOM	275	CD	ARG	A	243	29.566	18.534	48.109	1.00	99.33	A
ATOM	276	NE	ARG	A	243	29.371	19.843	48.734	1.00	95.06	A
ATOM	277	CZ	ARG	A	243	30.346	20.729	48.929	1.00	92.87	A
ATOM	278	NH1	ARG	A	243	31.581	20.449	48.546	1.00	94.09	A
ATOM	279	NH2	ARG	A	243	30.092	21.891	49.518	1.00	88.82	A
ATOM	280	C	ARG	A	243	28.249	16.912	45.118	1.00	100.00	A
ATOM	281	O	ARG	A	243	29.380	16.428	45.060	1.00	100.00	A
ATOM	282	N	LYS	A	244	27.747	17.747	44.206	1.00	99.06	A
ATOM	283	CA	LYS	A	244	28.478	18.240	43.037	1.00	98.76	A
ATOM	284	CB	LYS	A	244	28.603	17.148	41.962	1.00	100.00	A
ATOM	285	CG	LYS	A	244	29.694	16.098	42.281	1.00	98.14	A

ATOM	286	CD	LYS A 244	31.089	16.738	42.393	1.00	93.01	A
ATOM	287	CE	LYS A 244	32.109	15.835	43.099	1.00	89.01	A
ATOM	288	NZ	LYS A 244	32.276	16.135	44.561	1.00	87.77	A
ATOM	289	C	LYS A 244	27.752	19.489	42.510	1.00	96.35	A
ATOM	290	O	LYS A 244	26.521	19.527	42.446	1.00	91.91	A
ATOM	291	N	PHE A 245	28.543	20.500	42.149	1.00	94.82	A
ATOM	292	CA	PHE A 245	28.080	21.821	41.696	1.00	92.69	A
ATOM	293	CB	PHE A 245	29.242	22.813	41.865	1.00	88.36	A
ATOM	294	CG	PHE A 245	29.924	22.739	43.218	1.00	88.81	A
ATOM	295	CD1	PHE A 245	30.451	21.535	43.694	1.00	88.39	A
ATOM	296	CD2	PHE A 245	30.026	23.872	44.026	1.00	90.50	A
ATOM	297	CE1	PHE A 245	31.064	21.460	44.953	1.00	88.87	A
ATOM	298	CE2	PHE A 245	30.641	23.808	45.290	1.00	89.93	A
ATOM	299	CZ	PHE A 245	31.157	22.601	45.752	1.00	89.19	A
ATOM	300	C	PHE A 245	27.500	21.949	40.276	1.00	94.86	A
ATOM	301	O	PHE A 245	27.518	20.995	39.497	1.00	98.12	A
ATOM	302	N	LEU A 246	26.977	23.135	39.955	1.00	96.05	A
ATOM	303	CA	LEU A 246	26.411	23.412	38.627	1.00	97.03	A
ATOM	304	CB	LEU A 246	24.993	23.985	38.738	1.00	93.33	A
ATOM	305	CG	LEU A 246	23.854	23.124	39.276	1.00	91.25	A
ATOM	306	CD1	LEU A 246	22.560	23.902	39.126	1.00	87.45	A
ATOM	307	CD2	LEU A 246	23.774	21.806	38.517	1.00	89.83	A
ATOM	308	C	LEU A 246	27.291	24.418	37.866	1.00	99.90	A
ATOM	309	O	LEU A 246	27.564	25.516	38.362	1.00	97.61	A
ATOM	310	N	PRO A 247	27.735	24.059	36.645	1.00	100.00	A
ATOM	311	CD	PRO A 247	27.391	22.814	35.931	1.00	100.00	A
ATOM	312	CA	PRO A 247	28.586	24.917	35.807	1.00	100.00	A
ATOM	313	CB	PRO A 247	28.509	24.242	34.443	1.00	100.00	A
ATOM	314	CG	PRO A 247	28.401	22.797	34.809	1.00	99.47	A
ATOM	315	C	PRO A 247	28.150	26.382	35.755	1.00	100.00	A
ATOM	316	O	PRO A 247	27.028	26.694	35.349	1.00	100.00	A
ATOM	317	N	GLY A 262	22.013	32.180	33.527	1.00	91.30	A
ATOM	318	CA	GLY A 262	21.375	33.405	33.071	1.00	97.29	A
ATOM	319	C	GLY A 262	20.601	34.167	34.153	1.00	100.00	A
ATOM	320	O	GLY A 262	20.797	33.899	35.347	1.00	100.00	A
ATOM	321	N	LYS A 263	19.769	35.145	33.734	1.00	100.00	A
ATOM	322	CA	LYS A 263	19.013	35.916	34.700	1.00	100.00	A
ATOM	323	CB	LYS A 263	18.902	37.382	34.254	1.00	100.00	A
ATOM	324	CG	LYS A 263	17.710	38.098	34.898	1.00	100.00	A
ATOM	325	CD	LYS A 263	18.109	39.117	35.977	1.00	100.00	A
ATOM	326	CE	LYS A 263	19.406	38.722	36.694	1.00	100.00	A



ATOM	327	NZ	LYS A 263	19.458	39.318	38.029	1.00	99.60	A
ATOM	328	C	LYS A 263	17.655	35.264	35.000	1.00	96.24	A
ATOM	329	O	LYS A 263	16.925	35.631	35.904	1.00	100.00	A
ATOM	330	N	VAL A 264	17.316	34.260	34.149	1.00	89.75	A
ATOM	331	CA	VAL A 264	16.694	33.030	34.624	1.00	79.17	A
ATOM	332	CB	VAL A 264	15.461	32.751	33.761	1.00	77.32	A
ATOM	333	CG1	VAL A 264	14.645	31.614	34.375	1.00	67.06	A
ATOM	334	CG2	VAL A 264	14.595	33.994	33.671	1.00	80.14	A
ATOM	335	C	VAL A 264	17.657	31.844	34.545	1.00	79.42	A
ATOM	336	O	VAL A 264	18.655	31.853	33.835	1.00	84.83	A
ATOM	337	N	ASP A 265	17.346	30.809	35.348	1.00	76.43	A
ATOM	338	CA	ASP A 265	18.174	29.612	35.332	1.00	71.00	A
ATOM	339	CB	ASP A 265	18.821	29.455	36.711	1.00	73.98	A
ATOM	340	CG	ASP A 265	20.313	29.198	36.532	1.00	77.05	A
ATOM	341	OD1	ASP A 265	21.089	30.125	36.763	1.00	78.75	A
ATOM	342	OD2	ASP A 265	20.680	28.088	36.155	1.00	74.16	A
ATOM	343	C	ASP A 265	17.348	28.369	34.989	1.00	70.54	A
ATOM	344	O	ASP A 265	16.996	27.567	35.844	1.00	77.25	A
ATOM	345	N	LEU A 266	17.033	28.156	33.721	1.00	65.18	A
ATOM	346	CA	LEU A 266	16.299	26.963	33.364	1.00	61.61	A
ATOM	347	CB	LEU A 266	15.969	26.968	31.866	1.00	63.61	A
ATOM	348	CG	LEU A 266	14.939	28.021	31.420	1.00	60.54	A
ATOM	349	CD1	LEU A 266	13.916	28.208	32.552	1.00	57.75	A
ATOM	350	CD2	LEU A 266	15.607	29.361	31.107	1.00	62.25	A
ATOM	351	C	LEU A 266	17.144	25.759	33.750	1.00	61.78	A
ATOM	352	O	LEU A 266	16.634	24.655	33.931	1.00	63.72	A
ATOM	353	N	GLU A 267	18.443	25.986	33.902	1.00	59.78	A
ATOM	354	CA	GLU A 267	19.348	24.913	34.283	1.00	59.31	A
ATOM	355	CB	GLU A 267	20.798	25.336	34.046	1.00	66.24	A
ATOM	356	CG	GLU A 267	21.788	24.205	34.215	1.00	74.96	A
ATOM	357	CD	GLU A 267	21.697	23.187	33.095	1.00	81.98	A
ATOM	358	OE1	GLU A 267	20.592	22.982	32.546	1.00	80.68	A
ATOM	359	OE2	GLU A 267	22.737	22.579	32.769	1.00	90.84	A
ATOM	360	C	GLU A 267	19.119	24.609	35.758	1.00	58.74	A
ATOM	361	O	GLU A 267	18.642	23.537	36.127	1.00	60.84	A
ATOM	362	N	ALA A 268	19.446	25.568	36.607	1.00	55.93	A
ATOM	363	CA	ALA A 268	19.246	25.387	38.030	1.00	53.22	A
ATOM	364	CB	ALA A 268	19.553	26.690	38.762	1.00	50.98	A
ATOM	365	C	ALA A 268	17.800	24.954	38.289	1.00	51.76	A
ATOM	366	O	ALA A 268	17.544	23.983	38.988	1.00	53.59	A
ATOM	367	N	PHE A 269	16.851	25.665	37.698	1.00	53.82	A

ATOM	368	CA	PHE A 269	15.445	25.353	37.900	1.00	52.84	A
ATOM	369	CB	PHE A 269	14.555	26.316	37.115	1.00	46.09	A
ATOM	370	CG	PHE A 269	13.089	26.001	37.229	1.00	48.25	A
ATOM	371	CD1	PHE A 269	12.399	26.263	38.405	1.00	48.90	A
ATOM	372	CD2	PHE A 269	12.409	25.395	36.179	1.00	44.30	A
ATOM	373	CE1	PHE A 269	11.056	25.923	38.531	1.00	46.08	A
ATOM	374	CE2	PHE A 269	11.071	25.055	36.295	1.00	42.42	A
ATOM	375	CZ	PHE A 269	10.392	25.318	37.473	1.00	49.06	A
ATOM	376	C	PHE A 269	15.091	23.929	37.509	1.00	52.35	A
ATOM	377	O	PHE A 269	14.425	23.221	38.255	1.00	50.77	A
ATOM	378	N	SER A 270	15.524	23.513	36.330	1.00	53.23	A
ATOM	379	CA	SER A 270	15.210	22.173	35.873	1.00	57.34	A
ATOM	380	CB	SER A 270	15.853	21.897	34.516	1.00	56.62	A
ATOM	381	OG	SER A 270	17.255	21.785	34.648	1.00	66.86	A
ATOM	382	C	SER A 270	15.709	21.166	36.897	1.00	55.58	A
ATOM	383	O	SER A 270	15.015	20.210	37.228	1.00	57.34	A
ATOM	384	N	HIS A 271	16.913	21.381	37.403	1.00	51.59	A
ATOM	385	CA	HIS A 271	17.466	20.470	38.392	1.00	56.90	A
ATOM	386	CB	HIS A 271	18.907	20.866	38.692	1.00	63.74	A
ATOM	387	CG	HIS A 271	19.867	20.468	37.616	1.00	72.08	A
ATOM	388	CD2	HIS A 271	21.074	19.858	37.676	1.00	73.51	A
ATOM	389	ND1	HIS A 271	19.617	20.696	36.280	1.00	76.01	A
ATOM	390	CE1	HIS A 271	20.628	20.244	35.559	1.00	74.70	A
ATOM	391	NE2	HIS A 271	21.528	19.729	36.387	1.00	75.04	A
ATOM	392	C	HIS A 271	16.632	20.464	39.668	1.00	55.54	A
ATOM	393	O	HIS A 271	16.366	19.407	40.253	1.00	55.63	A
ATOM	394	N	PHE A 272	16.212	21.651	40.090	1.00	54.18	A
ATOM	395	CA	PHE A 272	15.398	21.797	41.288	1.00	47.11	A
ATOM	396	CB	PHE A 272	15.058	23.271	41.522	1.00	41.83	A
ATOM	397	CG	PHE A 272	16.247	24.113	41.878	1.00	43.40	A
ATOM	398	CD1	PHE A 272	16.208	25.495	41.723	1.00	44.97	A
ATOM	399	CD2	PHE A 272	17.419	23.523	42.361	1.00	42.11	A
ATOM	400	CE1	PHE A 272	17.322	26.285	42.036	1.00	39.08	A
ATOM	401	CE2	PHE A 272	18.542	24.298	42.680	1.00	42.00	A
ATOM	402	CZ	PHE A 272	18.493	25.683	42.515	1.00	42.47	A
ATOM	403	C	PHE A 272	14.127	20.990	41.166	1.00	42.48	A
ATOM	404	O	PHE A 272	13.784	20.250	42.073	1.00	41.71	A
ATOM	405	N	THR A 273	13.436	21.126	40.040	1.00	40.92	A
ATOM	406	CA	THR A 273	12.192	20.385	39.838	1.00	51.48	A
ATOM	407	CB	THR A 273	11.602	20.570	38.425	1.00	52.75	A
ATOM	408	OG1	THR A 273	12.446	19.900	37.485	1.00	57.25	A

ATOM	409	CG2	THR	A	273	11.468	22.054	38.068	1.00	49.66	A
ATOM	410	C	THR	A	273	12.423	18.896	40.022	1.00	50.69	A
ATOM	411	O	THR	A	273	11.495	18.159	40.354	1.00	48.25	A
ATOM	412	N	LYS	A	274	13.661	18.459	39.811	1.00	50.75	A
ATOM	413	CA	LYS	A	274	13.984	17.053	39.954	1.00	53.06	A
ATOM	414	CB	LYS	A	274	15.191	16.690	39.086	1.00	58.29	A
ATOM	415	CG	LYS	A	274	14.785	15.988	37.761	1.00	71.62	A
ATOM	416	CD	LYS	A	274	15.407	16.621	36.507	1.00	83.12	A
ATOM	417	CE	LYS	A	274	16.947	16.596	36.553	1.00	93.10	A
ATOM	418	NZ	LYS	A	274	17.563	17.449	35.478	1.00	93.69	A
ATOM	419	C	LYS	A	274	14.194	16.585	41.386	1.00	55.56	A
ATOM	420	O	LYS	A	274	13.916	15.433	41.696	1.00	62.90	A
ATOM	421	N	ILE	A	275	14.654	17.451	42.280	1.00	52.78	A
ATOM	422	CA	ILE	A	275	14.856	17.002	43.658	1.00	50.78	A
ATOM	423	CB	ILE	A	275	16.257	17.350	44.124	1.00	49.55	A
ATOM	424	CG2	ILE	A	275	17.253	16.552	43.316	1.00	44.10	A
ATOM	425	CG1	ILE	A	275	16.483	18.860	43.982	1.00	51.04	A
ATOM	426	CD1	ILE	A	275	17.817	19.355	44.510	1.00	49.76	A
ATOM	427	C	ILE	A	275	13.852	17.561	44.665	1.00	49.91	A
ATOM	428	O	ILE	A	275	13.769	17.103	45.804	1.00	45.55	A
ATOM	429	N	ILE	A	276	13.092	18.556	44.233	1.00	50.11	A
ATOM	430	CA	ILE	A	276	12.095	19.196	45.079	1.00	49.85	A
ATOM	431	CB	ILE	A	276	11.317	20.258	44.280	1.00	49.26	A
ATOM	432	CG2	ILE	A	276	10.579	19.608	43.130	1.00	49.71	A
ATOM	433	CG1	ILE	A	276	10.357	21.010	45.198	1.00	50.98	A
ATOM	434	CD1	ILE	A	276	11.051	21.998	46.093	1.00	51.73	A
ATOM	435	C	ILE	A	276	11.103	18.183	45.649	1.00	51.46	A
ATOM	436	O	ILE	A	276	10.631	18.332	46.785	1.00	48.61	A
ATOM	437	N	THR	A	277	10.800	17.153	44.857	1.00	47.69	A
ATOM	438	CA	THR	A	277	9.855	16.128	45.262	1.00	47.19	A
ATOM	439	CB	THR	A	277	9.453	15.285	44.067	1.00	45.78	A
ATOM	440	OG1	THR	A	277	8.804	16.132	43.109	1.00	51.34	A
ATOM	441	CG2	THR	A	277	8.510	14.194	44.490	1.00	30.42	A
ATOM	442	C	THR	A	277	10.354	15.230	46.396	1.00	49.91	A
ATOM	443	O	THR	A	277	9.719	15.142	47.459	1.00	51.64	A
ATOM	444	N	PRO	A	278	11.481	14.533	46.187	1.00	46.96	A
ATOM	445	CD	PRO	A	278	12.330	14.402	44.995	1.00	38.74	A
ATOM	446	CA	PRO	A	278	11.970	13.683	47.278	1.00	43.68	A
ATOM	447	CB	PRO	A	278	13.240	13.050	46.687	1.00	42.15	A
ATOM	448	CG	PRO	A	278	13.651	14.002	45.611	1.00	40.36	A
ATOM	449	C	PRO	A	278	12.240	14.528	48.525	1.00	41.18	A

ATOM	450	O	PRO	A	278	12.121	14.053	49.660	1.00	39.04	A
ATOM	451	N	ALA	A	279	12.588	15.794	48.291	1.00	42.79	A
ATOM	452	CA	ALA	A	279	12.871	16.758	49.360	1.00	41.64	A
ATOM	453	CB	ALA	A	279	13.377	18.073	48.756	1.00	36.62	A
ATOM	454	C	ALA	A	279	11.629	17.018	50.221	1.00	39.07	A
ATOM	455	O	ALA	A	279	11.703	17.027	51.448	1.00	42.44	A
ATOM	456	N	ILE	A	280	10.495	17.238	49.569	1.00	41.51	A
ATOM	457	CA	ILE	A	280	9.232	17.471	50.259	1.00	43.59	A
ATOM	458	CB	ILE	A	280	8.132	17.886	49.262	1.00	49.20	A
ATOM	459	CG2	ILE	A	280	6.768	17.898	49.943	1.00	37.32	A
ATOM	460	CG1	ILE	A	280	8.458	19.266	48.672	1.00	48.41	A
ATOM	461	CD1	ILE	A	280	7.445	19.744	47.658	1.00	42.24	A
ATOM	462	C	ILE	A	280	8.821	16.164	50.914	1.00	43.14	A
ATOM	463	O	ILE	A	280	8.335	16.137	52.060	1.00	42.05	A
ATOM	464	N	THR	A	281	9.047	15.077	50.183	1.00	41.19	A
ATOM	465	CA	THR	A	281	8.700	13.752	50.673	1.00	42.15	A
ATOM	466	CB	THR	A	281	9.100	12.626	49.687	1.00	46.83	A
ATOM	467	OG1	THR	A	281	8.362	12.757	48.463	1.00	45.60	A
ATOM	468	CG2	THR	A	281	8.809	11.268	50.304	1.00	25.91	A
ATOM	469	C	THR	A	281	9.369	13.457	51.991	1.00	41.60	A
ATOM	470	O	THR	A	281	8.743	12.919	52.901	1.00	41.84	A
ATOM	471	N	ARG	A	282	10.645	13.799	52.109	1.00	42.48	A
ATOM	472	CA	ARG	A	282	11.247	13.504	53.430	1.00	46.34	A
ATOM	473	CB	ARG	A	282	12.762	13.385	53.336	1.00	49.26	A
ATOM	474	CG	ARG	A	282	13.243	12.291	52.359	1.00	57.03	A
ATOM	475	CD	ARG	A	282	14.777	12.285	52.232	1.00	47.83	A
ATOM	476	NE	ARG	A	282	15.264	13.129	51.125	1.00	66.04	A
ATOM	477	CZ	ARG	A	282	15.427	14.459	51.308	1.00	77.64	A
ATOM	478	NH1	ARG	A	282	15.104	15.082	52.425	1.00	86.49	A
ATOM	479	NH2	ARG	A	282	15.991	15.146	50.365	1.00	78.67	A
ATOM	480	C	ARG	A	282	10.804	14.353	54.670	1.00	45.65	A
ATOM	481	O	ARG	A	282	11.021	13.949	55.790	1.00	44.40	A
ATOM	482	N	VAL	A	283	10.315	15.606	54.473	1.00	45.41	A
ATOM	483	CA	VAL	A	283	9.618	16.377	55.533	1.00	43.06	A
ATOM	484	CB	VAL	A	283	9.339	17.786	54.990	1.00	37.63	A
ATOM	485	CG1	VAL	A	283	8.644	18.684	56.035	1.00	31.69	A
ATOM	486	CG2	VAL	A	283	10.645	18.432	54.571	1.00	41.28	A
ATOM	487	C	VAL	A	283	8.301	15.689	56.019	1.00	46.48	A
ATOM	488	O	VAL	A	283	8.016	15.583	57.210	1.00	43.10	A
ATOM	489	N	VAL	A	284	7.499	15.229	55.042	1.00	47.26	A
ATOM	490	CA	VAL	A	284	6.342	14.376	55.334	1.00	45.55	A

ATOM	491	CB	VAL A 284	5.646	14.038	53.989	1.00	45.28	A
ATOM	492	CG1	VAL A 284	4.504	13.014	54.137	1.00	39.57	A
ATOM	493	CG2	VAL A 284	5.064	15.314	53.410	1.00	38.88	A
ATOM	494	C	VAL A 284	6.701	13.126	56.147	1.00	46.28	A
ATOM	495	O	VAL A 284	6.050	12.798	57.107	1.00	39.94	A
ATOM	496	N	ASP A 285	7.768	12.415	55.698	1.00	44.34	A
ATOM	497	CA	ASP A 285	8.254	11.196	56.343	1.00	47.24	A
ATOM	498	CB	ASP A 285	9.356	10.597	55.446	1.00	45.92	A
ATOM	499	CG	ASP A 285	8.774	9.866	54.224	1.00	57.24	A
ATOM	500	OD1	ASP A 285	7.600	10.065	53.925	1.00	56.85	A
ATOM	501	OD2	ASP A 285	9.500	9.145	53.561	1.00	63.55	A
ATOM	502	C	ASP A 285	8.818	11.465	57.749	1.00	50.15	A
ATOM	503	O	ASP A 285	8.651	10.686	58.645	1.00	52.23	A
ATOM	504	N	PHE A 286	9.363	12.659	57.988	1.00	48.47	A
ATOM	505	CA	PHE A 286	9.791	13.063	59.323	1.00	42.75	A
ATOM	506	CB	PHE A 286	10.482	14.440	59.246	1.00	43.33	A
ATOM	507	CG	PHE A 286	10.760	15.089	60.603	1.00	48.53	A
ATOM	508	CD1	PHE A 286	11.628	14.498	61.526	1.00	41.78	A
ATOM	509	CD2	PHE A 286	10.138	16.298	60.954	1.00	46.29	A
ATOM	510	CE1	PHE A 286	11.863	15.101	62.774	1.00	47.19	A
ATOM	511	CE2	PHE A 286	10.366	16.903	62.195	1.00	42.06	A
ATOM	512	CZ	PHE A 286	11.228	16.304	63.105	1.00	45.58	A
ATOM	513	C	PHE A 286	8.564	13.120	60.235	1.00	40.41	A
ATOM	514	O	PHE A 286	8.570	12.572	61.339	1.00	41.11	A
ATOM	515	N	ALA A 287	7.510	13.786	59.770	1.00	38.51	A
ATOM	516	CA	ALA A 287	6.285	13.908	60.550	1.00	33.78	A
ATOM	517	CB	ALA A 287	5.315	14.834	59.851	1.00	30.10	A
ATOM	518	C	ALA A 287	5.643	12.541	60.774	1.00	35.81	A
ATOM	519	O	ALA A 287	5.204	12.213	61.881	1.00	31.65	A
ATOM	520	N	LYS A 288	5.594	11.719	59.737	1.00	35.05	A
ATOM	521	CA	LYS A 288	4.994	10.408	59.920	1.00	38.21	A
ATOM	522	CB	LYS A 288	5.005	9.603	58.619	1.00	41.02	A
ATOM	523	CG	LYS A 288	4.213	10.202	57.449	1.00	53.42	A
ATOM	524	CD	LYS A 288	3.822	9.121	56.412	1.00	66.11	A
ATOM	525	CE	LYS A 288	4.982	8.161	56.081	1.00	73.20	A
ATOM	526	NZ	LYS A 288	4.493	6.837	55.575	1.00	68.81	A
ATOM	527	C	LYS A 288	5.747	9.626	60.994	1.00	36.96	A
ATOM	528	O	LYS A 288	5.216	8.648	61.527	1.00	42.36	A
ATOM	529	N	LYS A 289	6.974	10.048	61.314	1.00	34.93	A
ATOM	530	CA	LYS A 289	7.772	9.351	62.322	1.00	35.81	A
ATOM	531	CB	LYS A 289	9.245	9.235	61.891	1.00	35.51	A

ATOM	532	CG	LYS A 289	9.438	8.423	60.632	1.00	44.39	A
ATOM	533	CD	LYS A 289	10.885	8.052	60.370	1.00	46.44	A
ATOM	534	CE	LYS A 289	11.014	7.451	58.968	1.00	46.03	A
ATOM	535	NZ	LYS A 289	10.119	6.268	58.790	1.00	49.73	A
ATOM	536	C	LYS A 289	7.691	9.919	63.737	1.00	37.05	A
ATOM	537	O	LYS A 289	8.418	9.485	64.635	1.00	34.41	A
ATOM	538	N	LEU A 290	6.814	10.891	63.948	1.00	39.45	A
ATOM	539	CA	LEU A 290	6.646	11.425	65.286	1.00	43.19	A
ATOM	540	CB	LEU A 290	6.686	12.955	65.288	1.00	39.95	A
ATOM	541	CG	LEU A 290	8.007	13.554	64.800	1.00	40.22	A
ATOM	542	CD1	LEU A 290	7.896	15.079	64.652	1.00	40.22	A
ATOM	543	CD2	LEU A 290	9.111	13.168	65.788	1.00	39.16	A
ATOM	544	C	LEU A 290	5.302	10.905	65.787	1.00	47.89	A
ATOM	545	O	LEU A 290	4.245	11.155	65.196	1.00	47.73	A
ATOM	546	N	PRO A 291	5.337	10.113	66.864	1.00	50.52	A
ATOM	547	CD	PRO A 291	6.545	9.556	67.505	1.00	49.31	A
ATOM	548	CA	PRO A 291	4.118	9.554	67.449	1.00	46.04	A
ATOM	549	CB	PRO A 291	4.618	8.986	68.766	1.00	42.32	A
ATOM	550	CG	PRO A 291	5.974	8.474	68.378	1.00	40.33	A
ATOM	551	C	PRO A 291	3.049	10.625	67.625	1.00	43.72	A
ATOM	552	O	PRO A 291	1.952	10.502	67.090	1.00	42.55	A
ATOM	553	N	MET A 292	3.393	11.687	68.351	1.00	45.31	A
ATOM	554	CA	MET A 292	2.460	12.787	68.594	1.00	46.00	A
ATOM	555	CB	MET A 292	3.187	13.979	69.202	1.00	42.40	A
ATOM	556	CG	MET A 292	3.415	13.892	70.683	1.00	51.79	A
ATOM	557	SD	MET A 292	4.971	14.671	71.109	1.00	47.65	A
ATOM	558	CE	MET A 292	6.065	13.305	70.525	1.00	65.49	A
ATOM	559	C	MET A 292	1.767	13.266	67.331	1.00	46.11	A
ATOM	560	O	MET A 292	0.580	13.573	67.349	1.00	49.06	A
ATOM	561	N	PHE A 293	2.518	13.346	66.238	1.00	43.62	A
ATOM	562	CA	PHE A 293	1.976	13.826	64.979	1.00	48.03	A
ATOM	563	CB	PHE A 293	3.112	14.169	63.992	1.00	41.10	A
ATOM	564	CG	PHE A 293	2.625	14.614	62.621	1.00	40.33	A
ATOM	565	CD1	PHE A 293	2.240	15.937	62.393	1.00	43.30	A
ATOM	566	CD2	PHE A 293	2.535	13.706	61.568	1.00	35.28	A
ATOM	567	CE1	PHE A 293	1.779	16.348	61.143	1.00	40.36	A
ATOM	568	CE2	PHE A 293	2.080	14.106	60.325	1.00	38.60	A
ATOM	569	CZ	PHE A 293	1.701	15.429	60.107	1.00	43.71	A
ATOM	570	C	PHE A 293	1.029	12.822	64.333	1.00	50.43	A
ATOM	571	O	PHE A 293	0.030	13.205	63.704	1.00	48.37	A
ATOM	572	N	CYS A 294	1.349	11.540	64.472	1.00	49.22	A

ATOM	573	CA	CYS A 294	0.522	10.508	63.873	1.00	49.47	A
ATOM	574	CB	CYS A 294	1.238	9.174	63.943	1.00	47.49	A
ATOM	575	SG	CYS A 294	2.719	9.180	62.949	1.00	57.91	A
ATOM	576	C	CYS A 294	-0.771	10.448	64.638	1.00	48.27	A
ATOM	577	O	CYS A 294	-1.830	10.080	64.116	1.00	55.14	A
ATOM	578	N	GLU A 295	-0.679	10.849	65.888	1.00	42.31	A
ATOM	579	CA	GLU A 295	-1.837	10.832	66.716	1.00	44.53	A
ATOM	580	CB	GLU A 295	-1.419	10.842	68.163	1.00	44.07	A
ATOM	581	CG	GLU A 295	-2.533	10.459	69.046	1.00	60.19	A
ATOM	582	CD	GLU A 295	-2.037	9.992	70.363	1.00	74.52	A
ATOM	583	OE1	GLU A 295	-2.882	9.847	71.277	1.00	86.76	A
ATOM	584	OE2	GLU A 295	-0.803	9.770	70.481	1.00	76.58	A
ATOM	585	C	GLU A 295	-2.785	11.990	66.422	1.00	45.73	A
ATOM	586	O	GLU A 295	-3.774	12.175	67.121	1.00	49.96	A
ATOM	587	N	LEU A 296	-2.509	12.757	65.373	1.00	44.83	A
ATOM	588	CA	LEU A 296	-3.385	13.870	65.028	1.00	44.43	A
ATOM	589	CB	LEU A 296	-2.581	15.119	64.643	1.00	42.51	A
ATOM	590	CG	LEU A 296	-1.840	15.838	65.776	1.00	43.41	A
ATOM	591	CD1	LEU A 296	-0.811	16.788	65.194	1.00	41.58	A
ATOM	592	CD2	LEU A 296	-2.836	16.573	66.648	1.00	35.85	A
ATOM	593	C	LEU A 296	-4.273	13.476	63.871	1.00	44.74	A
ATOM	594	O	LEU A 296	-3.935	12.583	63.083	1.00	40.61	A
ATOM	595	N	PRO A 297	-5.444	14.123	63.773	1.00	48.02	A
ATOM	596	CD	PRO A 297	-5.962	15.155	64.690	1.00	46.79	A
ATOM	597	CA	PRO A 297	-6.402	13.854	62.704	1.00	46.72	A
ATOM	598	CB	PRO A 297	-7.585	14.749	63.067	1.00	49.52	A
ATOM	599	CG	PRO A 297	-6.963	15.877	63.825	1.00	42.69	A
ATOM	600	C	PRO A 297	-5.768	14.243	61.392	1.00	49.07	A
ATOM	601	O	PRO A 297	-5.254	15.348	61.254	1.00	56.15	A
ATOM	602	N	CYS A 298	-5.788	13.329	60.437	1.00	50.89	A
ATOM	603	CA	CYS A 298	-5.203	13.595	59.134	1.00	54.15	A
ATOM	604	CB	CYS A 298	-5.697	12.568	58.121	1.00	54.36	A
ATOM	605	SG	CYS A 298	-7.469	12.651	57.872	1.00	64.05	A
ATOM	606	C	CYS A 298	-5.523	15.004	58.625	1.00	52.97	A
ATOM	607	O	CYS A 298	-4.733	15.595	57.894	1.00	48.84	A
ATOM	608	N	GLU A 299	-6.680	15.536	58.995	1.00	55.49	A
ATOM	609	CA	GLU A 299	-7.009	16.865	58.407	1.00	62.10	A
ATOM	610	CB	GLU A 299	-8.411	17.247	58.833	1.00	64.61	A
ATOM	611	CG	GLU A 299	-9.474	16.645	57.940	1.00	68.51	A
ATOM	612	CD	GLU A 299	-10.338	15.707	58.737	1.00	73.04	A
ATOM	613	OE1	GLU A 299	-10.345	15.780	59.958	1.00	63.52	A

ATOM	614	OE2	GLU	A	299	-11.072	14.971	58.102	1.00	73.76	A
ATOM	615	C	GLU	A	299	-6.056	17.981	58.836	1.00	58.84	A
ATOM	616	O	GLU	A	299	-5.715	18.849	58.079	1.00	58.12	A
ATOM	617	N	ASP	A	300	-5.751	17.983	60.143	1.00	52.05	A
ATOM	618	CA	ASP	A	300	-4.764	18.903	60.733	1.00	56.95	A
ATOM	619	CB	ASP	A	300	-4.775	18.786	62.245	1.00	58.20	A
ATOM	620	CG	ASP	A	300	-6.065	19.236	62.908	1.00	63.54	A
ATOM	621	OD1	ASP	A	300	-7.024	19.615	62.238	1.00	72.11	A
ATOM	622	OD2	ASP	A	300	-6.101	19.089	64.101	1.00	58.83	A
ATOM	623	C	ASP	A	300	-3.315	18.586	60.297	1.00	54.91	A
ATOM	624	O	ASP	A	300	-2.509	19.477	60.212	1.00	50.62	A
ATOM	625	N	GLN	A	301	-3.032	17.243	60.195	1.00	54.65	A
ATOM	626	CA	GLN	A	301	-1.764	16.678	59.687	1.00	51.05	A
ATOM	627	CB	GLN	A	301	-1.934	15.163	59.483	1.00	46.61	A
ATOM	628	CG	GLN	A	301	-1.693	14.317	60.726	1.00	43.85	A
ATOM	629	CD	GLN	A	301	-1.506	12.890	60.289	1.00	47.71	A
ATOM	630	OE1	GLN	A	301	-1.084	12.598	59.195	1.00	54.11	A
ATOM	631	NE2	GLN	A	301	-1.729	11.985	61.251	1.00	48.47	A
ATOM	632	C	GLN	A	301	-1.397	17.265	58.326	1.00	53.15	A
ATOM	633	O	GLN	A	301	-0.282	17.606	58.081	1.00	55.85	A
ATOM	634	N	ILE	A	302	-2.353	17.310	57.417	1.00	48.31	A
ATOM	635	CA	ILE	A	302	-2.174	18.056	56.132	1.00	51.13	A
ATOM	636	CB	ILE	A	302	-3.383	17.914	55.171	1.00	53.11	A
ATOM	637	CG2	ILE	A	302	-3.312	18.990	54.038	1.00	54.10	A
ATOM	638	CG1	ILE	A	302	-3.390	16.547	54.482	1.00	55.61	A
ATOM	639	CD1	ILE	A	302	-4.737	15.810	54.641	1.00	52.12	A
ATOM	640	C	ILE	A	302	-1.842	19.552	56.241	1.00	47.30	A
ATOM	641	O	ILE	A	302	-0.876	19.979	55.665	1.00	54.89	A
ATOM	642	N	ILE	A	303	-2.759	20.358	56.840	1.00	45.14	A
ATOM	643	CA	ILE	A	303	-2.538	21.793	57.102	1.00	45.54	A
ATOM	644	CB	ILE	A	303	-3.771	22.225	57.931	1.00	50.16	A
ATOM	645	CG2	ILE	A	303	-3.461	23.365	58.922	1.00	44.46	A
ATOM	646	CG1	ILE	A	303	-4.986	22.644	57.074	1.00	44.40	A
ATOM	647	CD1	ILE	A	303	-6.334	22.381	57.796	1.00	39.65	A
ATOM	648	C	ILE	A	303	-1.231	22.018	57.884	1.00	52.10	A
ATOM	649	O	ILE	A	303	-0.633	23.075	57.872	1.00	50.16	A
ATOM	650	N	LEU	A	304	-0.797	21.047	58.712	1.00	50.89	A
ATOM	651	CA	LEU	A	304	0.405	21.267	59.514	1.00	44.77	A
ATOM	652	CB	LEU	A	304	0.407	20.256	60.662	1.00	39.87	A
ATOM	653	CG	LEU	A	304	0.666	20.913	62.020	1.00	41.67	A
ATOM	654	CD1	LEU	A	304	-0.136	22.203	62.207	1.00	27.35	A



ATOM	655	CD2	LEU	A	304	0.303	20.007	63.196	1.00	40.12	A
ATOM	656	C	LEU	A	304	1.690	21.126	58.691	1.00	47.67	A
ATOM	657	O	LEU	A	304	2.596	21.946	58.760	1.00	46.50	A
ATOM	658	N	LEU	A	305	1.613	20.087	57.866	1.00	48.50	A
ATOM	659	CA	LEU	A	305	2.690	19.838	56.914	1.00	45.89	A
ATOM	660	CB	LEU	A	305	2.483	18.485	56.226	1.00	41.13	A
ATOM	661	CG	LEU	A	305	3.066	17.304	57.022	1.00	47.83	A
ATOM	662	CD1	LEU	A	305	2.655	15.992	56.384	1.00	47.10	A
ATOM	663	CD2	LEU	A	305	4.600	17.406	57.085	1.00	43.08	A
ATOM	664	C	LEU	A	305	2.894	20.941	55.875	1.00	42.94	A
ATOM	665	O	LEU	A	305	4.025	21.304	55.557	1.00	44.64	A
ATOM	666	N	LYS	A	306	1.802	21.490	55.358	1.00	44.23	A
ATOM	667	CA	LYS	A	306	1.889	22.545	54.350	1.00	44.22	A
ATOM	668	CB	LYS	A	306	0.490	22.825	53.779	1.00	37.45	A
ATOM	669	CG	LYS	A	306	-0.099	21.660	52.995	1.00	43.64	A
ATOM	670	CD	LYS	A	306	-1.573	21.857	52.603	1.00	43.47	A
ATOM	671	CE	LYS	A	306	-1.729	22.459	51.208	1.00	54.59	A
ATOM	672	NZ	LYS	A	306	-3.136	22.401	50.703	1.00	58.36	A
ATOM	673	C	LYS	A	306	2.496	23.843	54.912	1.00	43.69	A
ATOM	674	O	LYS	A	306	3.172	24.598	54.199	1.00	42.60	A
ATOM	675	N	GLY	A	307	2.270	24.079	56.197	1.00	40.75	A
ATOM	676	CA	GLY	A	307	2.751	25.292	56.814	1.00	39.47	A
ATOM	677	C	GLY	A	307	4.204	25.287	57.193	1.00	42.88	A
ATOM	678	O	GLY	A	307	4.865	26.330	57.160	1.00	48.78	A
ATOM	679	N	CYS	A	308	4.717	24.124	57.553	1.00	40.74	A
ATOM	680	CA	CYS	A	308	6.107	24.052	57.952	1.00	40.59	A
ATOM	681	CB	CYS	A	308	6.236	23.256	59.250	1.00	40.78	A
ATOM	682	SG	CYS	A	308	6.121	21.442	59.050	1.00	47.81	A
ATOM	683	C	CYS	A	308	6.986	23.416	56.886	1.00	40.24	A
ATOM	684	O	CYS	A	308	8.204	23.320	57.059	1.00	39.64	A
ATOM	685	N	CYS	A	309	6.395	22.995	55.776	1.00	37.97	A
ATOM	686	CA	CYS	A	309	7.209	22.333	54.781	1.00	42.66	A
ATOM	687	CB	CYS	A	309	6.392	21.939	53.553	1.00	39.34	A
ATOM	688	SG	CYS	A	309	7.318	20.777	52.508	1.00	42.02	A
ATOM	689	C	CYS	A	309	8.427	23.123	54.339	1.00	42.41	A
ATOM	690	O	CYS	A	309	9.549	22.632	54.409	1.00	40.72	A
ATOM	691	N	MET	A	310	8.212	24.342	53.877	1.00	44.97	A
ATOM	692	CA	MET	A	310	9.323	25.156	53.426	1.00	46.34	A
ATOM	693	CB	MET	A	310	8.795	26.446	52.799	1.00	48.45	A
ATOM	694	CG	MET	A	310	9.876	27.347	52.247	1.00	43.72	A
ATOM	695	SD	MET	A	310	10.894	26.526	50.988	1.00	50.29	A

ATOM	696	CE	MET A 310	12.015	27.879	50.498	1.00	41.05	A
ATOM	697	C	MET A 310	10.282	25.487	54.574	1.00	47.61	A
ATOM	698	O	MET A 310	11.504	25.487	54.395	1.00	48.80	A
ATOM	699	N	GLU A 311	9.730	25.753	55.757	1.00	47.67	A
ATOM	700	CA	GLU A 311	10.548	26.093	56.917	1.00	42.85	A
ATOM	701	CB	GLU A 311	9.659	26.419	58.101	1.00	41.85	A
ATOM	702	CG	GLU A 311	8.342	27.010	57.663	1.00	51.18	A
ATOM	703	CD	GLU A 311	7.487	27.442	58.830	1.00	56.55	A
ATOM	704	OE1	GLU A 311	7.395	26.668	59.815	1.00	59.22	A
ATOM	705	OE2	GLU A 311	6.903	28.551	58.752	1.00	56.03	A
ATOM	706	C	GLU A 311	11.498	24.966	57.280	1.00	44.75	A
ATOM	707	O	GLU A 311	12.620	25.214	57.722	1.00	50.85	A
ATOM	708	N	ILE A 312	11.064	23.723	57.094	1.00	43.38	A
ATOM	709	CA	ILE A 312	11.938	22.611	57.415	1.00	42.65	A
ATOM	710	CB	ILE A 312	11.153	21.336	57.719	1.00	37.77	A
ATOM	711	CG2	ILE A 312	12.075	20.143	57.716	1.00	32.52	A
ATOM	712	CG1	ILE A 312	10.515	21.466	59.099	1.00	37.71	A
ATOM	713	CD1	ILE A 312	9.739	20.290	59.515	1.00	29.31	A
ATOM	714	C	ILE A 312	12.930	22.362	56.294	1.00	44.56	A
ATOM	715	O	ILE A 312	14.096	22.064	56.547	1.00	49.44	A
ATOM	716	N	MET A 313	12.489	22.499	55.053	1.00	44.31	A
ATOM	717	CA	MET A 313	13.406	22.299	53.945	1.00	46.42	A
ATOM	718	CB	MET A 313	12.687	22.425	52.610	1.00	43.90	A
ATOM	719	CG	MET A 313	11.699	21.321	52.385	1.00	44.19	A
ATOM	720	SD	MET A 313	11.249	21.174	50.681	1.00	48.33	A
ATOM	721	CE	MET A 313	9.866	22.306	50.618	1.00	51.45	A
ATOM	722	C	MET A 313	14.532	23.318	53.995	1.00	48.44	A
ATOM	723	O	MET A 313	15.699	22.975	53.789	1.00	54.06	A
ATOM	724	N	SER A 314	14.183	24.571	54.264	1.00	45.51	A
ATOM	725	CA	SER A 314	15.177	25.625	54.325	1.00	42.61	A
ATOM	726	CB	SER A 314	14.505	26.975	54.503	1.00	43.53	A
ATOM	727	OG	SER A 314	13.611	27.211	53.440	1.00	41.34	A
ATOM	728	C	SER A 314	16.125	25.365	55.472	1.00	46.93	A
ATOM	729	O	SER A 314	17.341	25.520	55.326	1.00	44.53	A
ATOM	730	N	LEU A 315	15.587	24.983	56.626	1.00	45.25	A
ATOM	731	CA	LEU A 315	16.477	24.698	57.731	1.00	45.30	A
ATOM	732	CB	LEU A 315	15.695	24.184	58.950	1.00	44.58	A
ATOM	733	CG	LEU A 315	16.529	23.748	60.170	1.00	43.66	A
ATOM	734	CD1	LEU A 315	17.572	24.821	60.484	1.00	37.25	A
ATOM	735	CD2	LEU A 315	15.629	23.500	61.373	1.00	37.56	A
ATOM	736	C	LEU A 315	17.469	23.642	57.235	1.00	44.45	A

ATOM	737	O	LEU A 315	18.668	23.869	57.220	1.00	44.90	A
ATOM	738	N	ARG A 316	16.964	22.499	56.793	1.00	46.52	A
ATOM	739	CA	ARG A 316	17.834	21.427	56.313	1.00	47.68	A
ATOM	740	CB	ARG A 316	16.986	20.307	55.727	1.00	39.34	A
ATOM	741	CG	ARG A 316	16.166	19.635	56.790	1.00	34.88	A
ATOM	742	CD	ARG A 316	15.380	18.485	56.241	1.00	34.62	A
ATOM	743	NE	ARG A 316	15.160	17.504	57.286	1.00	33.52	A
ATOM	744	CZ	ARG A 316	14.656	16.287	57.094	1.00	38.54	A
ATOM	745	NH1	ARG A 316	14.507	15.470	58.143	1.00	30.33	A
ATOM	746	NH2	ARG A 316	14.295	15.895	55.869	1.00	29.45	A
ATOM	747	C	ARG A 316	18.905	21.852	55.305	1.00	50.60	A
ATOM	748	O	ARG A 316	19.989	21.254	55.250	1.00	46.61	A
ATOM	749	N	ALA A 317	18.600	22.875	54.513	1.00	48.25	A
ATOM	750	CA	ALA A 317	19.541	23.372	53.518	1.00	49.72	A
ATOM	751	CB	ALA A 317	18.785	24.058	52.414	1.00	43.32	A
ATOM	752	C	ALA A 317	20.549	24.344	54.151	1.00	51.72	A
ATOM	753	O	ALA A 317	21.745	24.329	53.822	1.00	44.95	A
ATOM	754	N	ALA A 318	20.041	25.188	55.056	1.00	51.54	A
ATOM	755	CA	ALA A 318	20.845	26.179	55.751	1.00	45.16	A
ATOM	756	CB	ALA A 318	19.986	26.948	56.722	1.00	46.45	A
ATOM	757	C	ALA A 318	21.993	25.537	56.491	1.00	46.84	A
ATOM	758	O	ALA A 318	23.123	26.031	56.451	1.00	53.03	A
ATOM	759	N	VAL A 319	21.714	24.431	57.171	1.00	46.16	A
ATOM	760	CA	VAL A 319	22.752	23.754	57.942	1.00	51.38	A
ATOM	761	CB	VAL A 319	22.174	22.726	58.929	1.00	46.73	A
ATOM	762	CG1	VAL A 319	21.347	23.432	59.960	1.00	42.73	A
ATOM	763	CG2	VAL A 319	21.371	21.659	58.173	1.00	48.14	A
ATOM	764	C	VAL A 319	23.776	23.044	57.086	1.00	51.67	A
ATOM	765	O	VAL A 319	24.673	22.379	57.609	1.00	53.48	A
ATOM	766	N	ARG A 320	23.644	23.173	55.774	1.00	55.52	A
ATOM	767	CA	ARG A 320	24.599	22.537	54.885	1.00	58.39	A
ATOM	768	CB	ARG A 320	23.901	21.486	54.013	1.00	56.48	A
ATOM	769	CG	ARG A 320	23.386	20.333	54.858	1.00	50.71	A
ATOM	770	CD	ARG A 320	23.337	19.017	54.124	1.00	53.78	A
ATOM	771	NE	ARG A 320	21.992	18.630	53.709	1.00	69.25	A
ATOM	772	CZ	ARG A 320	21.441	17.446	53.977	1.00	70.65	A
ATOM	773	NH1	ARG A 320	22.117	16.522	54.666	1.00	60.58	A
ATOM	774	NH2	ARG A 320	20.209	17.187	53.555	1.00	75.20	A
ATOM	775	C	ARG A 320	25.347	23.568	54.053	1.00	61.73	A
ATOM	776	O	ARG A 320	25.776	23.300	52.930	1.00	62.13	A
ATOM	777	N	TYR A 321	25.495	24.755	54.638	1.00	66.66	A

ATOM	778	CA	TYR A 321	26.226	25.851	54.021	1.00	68.19	A
ATOM	779	CB	TYR A 321	25.859	27.190	54.658	1.00	70.60	A
ATOM	780	CG	TYR A 321	26.688	28.324	54.116	1.00	73.83	A
ATOM	781	CD1	TYR A 321	26.597	28.681	52.772	1.00	78.32	A
ATOM	782	CE1	TYR A 321	27.373	29.704	52.244	1.00	81.45	A
ATOM	783	CD2	TYR A 321	27.581	29.025	54.929	1.00	72.82	A
ATOM	784	CE2	TYR A 321	28.367	30.058	54.408	1.00	75.79	A
ATOM	785	CZ	TYR A 321	28.255	30.388	53.063	1.00	78.26	A
ATOM	786	OH	TYR A 321	29.022	31.394	52.523	1.00	78.71	A
ATOM	787	C	TYR A 321	27.720	25.622	54.233	1.00	66.63	A
ATOM	788	O	TYR A 321	28.184	25.493	55.364	1.00	55.26	A
ATOM	789	N	ASP A 322	28.457	25.562	53.131	1.00	71.95	A
ATOM	790	CA	ASP A 322	29.898	25.381	53.171	1.00	76.04	A
ATOM	791	CB	ASP A 322	30.351	24.408	52.094	1.00	79.91	A
ATOM	792	CG	ASP A 322	31.852	24.333	51.997	1.00	83.80	A
ATOM	793	OD1	ASP A 322	32.364	23.677	51.065	1.00	87.69	A
ATOM	794	OD2	ASP A 322	32.518	24.935	52.866	1.00	85.11	A
ATOM	795	C	ASP A 322	30.525	26.734	52.897	1.00	77.50	A
ATOM	796	O	ASP A 322	30.457	27.236	51.781	1.00	77.83	A
ATOM	797	N	PRO A 323	31.138	27.351	53.913	1.00	79.87	A
ATOM	798	CD	PRO A 323	31.133	27.019	55.347	1.00	79.57	A
ATOM	799	CA	PRO A 323	31.752	28.662	53.681	1.00	80.05	A
ATOM	800	CB	PRO A 323	32.271	29.048	55.065	1.00	79.30	A
ATOM	801	CG	PRO A 323	31.276	28.390	55.983	1.00	80.06	A
ATOM	802	C	PRO A 323	32.849	28.625	52.616	1.00	79.74	A
ATOM	803	O	PRO A 323	33.032	29.597	51.882	1.00	82.00	A
ATOM	804	N	ALA A 324	33.569	27.503	52.531	1.00	78.61	A
ATOM	805	CA	ALA A 324	34.634	27.348	51.541	1.00	75.08	A
ATOM	806	CB	ALA A 324	35.294	25.967	51.664	1.00	75.03	A
ATOM	807	C	ALA A 324	34.030	27.524	50.152	1.00	74.83	A
ATOM	808	O	ALA A 324	34.359	28.477	49.441	1.00	73.37	A
ATOM	809	N	SER A 325	33.128	26.618	49.775	1.00	73.74	A
ATOM	810	CA	SER A 325	32.474	26.688	48.468	1.00	73.41	A
ATOM	811	CB	SER A 325	31.919	25.310	48.085	1.00	68.46	A
ATOM	812	OG	SER A 325	31.105	24.793	49.118	1.00	68.16	A
ATOM	813	C	SER A 325	31.345	27.729	48.412	1.00	73.96	A
ATOM	814	O	SER A 325	30.823	28.021	47.335	1.00	71.02	A
ATOM	815	N	GLU A 326	30.997	28.300	49.564	1.00	76.53	A
ATOM	816	CA	GLU A 326	29.917	29.281	49.665	1.00	75.62	A
ATOM	817	CB	GLU A 326	30.353	30.619	49.079	1.00	78.69	A
ATOM	818	CG	GLU A 326	31.409	31.296	49.935	1.00	89.68	A

ATOM	819	CD	GLU	A	326	31.707	32.718	49.500	1.00	96.26	A
ATOM	820	OE1	GLU	A	326	32.551	33.374	50.154	1.00	100.00	A
ATOM	821	OE2	GLU	A	326	31.099	33.181	48.507	1.00	100.00	A
ATOM	822	C	GLU	A	326	28.683	28.740	48.957	1.00	74.64	A
ATOM	823	O	GLU	A	326	28.064	29.398	48.116	1.00	72.67	A
ATOM	824	N	THR	A	327	28.331	27.517	49.334	1.00	73.64	A
ATOM	825	CA	THR	A	327	27.198	26.829	48.755	1.00	73.19	A
ATOM	826	CB	THR	A	327	27.674	25.849	47.681	1.00	70.61	A
ATOM	827	OG1	THR	A	327	28.595	24.921	48.266	1.00	70.22	A
ATOM	828	CG2	THR	A	327	28.353	26.589	46.557	1.00	70.75	A
ATOM	829	C	THR	A	327	26.379	26.035	49.773	1.00	73.40	A
ATOM	830	O	THR	A	327	26.896	25.564	50.791	1.00	73.05	A
ATOM	831	N	LEU	A	328	25.090	25.895	49.482	1.00	69.50	A
ATOM	832	CA	LEU	A	328	24.204	25.110	50.320	1.00	61.63	A
ATOM	833	CB	LEU	A	328	22.804	25.715	50.359	1.00	56.35	A
ATOM	834	CG	LEU	A	328	22.698	27.148	50.855	1.00	54.40	A
ATOM	835	CD1	LEU	A	328	21.253	27.545	51.000	1.00	49.65	A
ATOM	836	CD2	LEU	A	328	23.405	27.253	52.185	1.00	61.84	A
ATOM	837	C	LEU	A	328	24.137	23.792	49.591	1.00	57.71	A
ATOM	838	O	LEU	A	328	24.653	23.661	48.489	1.00	60.10	A
ATOM	839	N	THR	A	329	23.500	22.810	50.198	1.00	55.40	A
ATOM	840	CA	THR	A	329	23.361	21.529	49.545	1.00	53.50	A
ATOM	841	CB	THR	A	329	24.280	20.468	50.153	1.00	52.84	A
ATOM	842	OG1	THR	A	329	25.645	20.898	50.049	1.00	55.83	A
ATOM	843	CG2	THR	A	329	24.110	19.165	49.411	1.00	49.69	A
ATOM	844	C	THR	A	329	21.912	21.122	49.709	1.00	54.97	A
ATOM	845	O	THR	A	329	21.401	20.999	50.838	1.00	59.86	A
ATOM	846	N	LEU	A	330	21.258	20.926	48.570	1.00	51.33	A
ATOM	847	CA	LEU	A	330	19.850	20.569	48.520	1.00	50.86	A
ATOM	848	CB	LEU	A	330	19.190	21.383	47.416	1.00	41.32	A
ATOM	849	CG	LEU	A	330	19.637	22.851	47.395	1.00	39.57	A
ATOM	850	CD1	LEU	A	330	18.897	23.575	46.264	1.00	47.35	A
ATOM	851	CD2	LEU	A	330	19.377	23.536	48.735	1.00	31.90	A
ATOM	852	C	LEU	A	330	19.639	19.076	48.298	1.00	53.27	A
ATOM	853	O	LEU	A	330	20.300	18.476	47.452	1.00	58.70	A
ATOM	854	N	ASN	A	331	18.712	18.488	49.058	1.00	55.39	A
ATOM	855	CA	ASN	A	331	18.412	17.050	48.981	1.00	58.07	A
ATOM	856	CB	ASN	A	331	17.815	16.704	47.600	1.00	59.84	A
ATOM	857	CG	ASN	A	331	16.888	15.483	47.628	1.00	58.43	A
ATOM	858	OD1	ASN	A	331	17.239	14.405	47.155	1.00	60.72	A
ATOM	859	ND2	ASN	A	331	15.697	15.662	48.168	1.00	59.70	A

ATOM	860	C	ASN A 331	19.727	16.284	49.225	1.00	58.45	A
ATOM	861	O	ASN A 331	19.893	15.135	48.803	1.00	54.27	A
ATOM	862	N	GLY A 332	20.658	16.943	49.918	1.00	59.25	A
ATOM	863	CA	GLY A 332	21.945	16.341	50.211	1.00	62.86	A
ATOM	864	C	GLY A 332	22.724	15.866	48.992	1.00	67.80	A
ATOM	865	O	GLY A 332	23.601	15.011	49.123	1.00	66.42	A
ATOM	866	N	GLU A 333	22.418	16.410	47.811	1.00	72.85	A
ATOM	867	CA	GLU A 333	23.105	16.020	46.572	1.00	75.06	A
ATOM	868	CB	GLU A 333	22.164	15.310	45.594	1.00	79.65	A
ATOM	869	CG	GLU A 333	21.224	14.266	46.150	1.00	90.44	A
ATOM	870	CD	GLU A 333	20.308	13.720	45.058	1.00	95.88	A
ATOM	871	OE1	GLU A 333	19.848	14.526	44.216	1.00	90.56	A
ATOM	872	OE2	GLU A 333	20.045	12.494	45.042	1.00	100.00	A
ATOM	873	C	GLU A 333	23.663	17.224	45.815	1.00	75.53	A
ATOM	874	O	GLU A 333	24.847	17.280	45.499	1.00	81.30	A
ATOM	875	N	MET A 334	22.786	18.176	45.510	1.00	70.94	A
ATOM	876	CA	MET A 334	23.146	19.363	44.743	1.00	63.67	A
ATOM	877	CB	MET A 334	21.955	19.770	43.895	1.00	63.71	A
ATOM	878	CG	MET A 334	22.078	21.111	43.237	1.00	65.38	A
ATOM	879	SD	MET A 334	20.584	21.429	42.299	1.00	75.04	A
ATOM	880	CE	MET A 334	20.748	20.121	41.105	1.00	79.94	A
ATOM	881	C	MET A 334	23.610	20.567	45.527	1.00	61.53	A
ATOM	882	O	MET A 334	22.837	21.166	46.257	1.00	65.47	A
ATOM	883	N	ALA A 335	24.869	20.937	45.367	1.00	61.81	A
ATOM	884	CA	ALA A 335	25.377	22.111	46.061	1.00	63.00	A
ATOM	885	CB	ALA A 335	26.864	21.949	46.365	1.00	63.04	A
ATOM	886	C	ALA A 335	25.143	23.300	45.134	1.00	58.04	A
ATOM	887	O	ALA A 335	25.464	23.228	43.960	1.00	62.66	A
ATOM	888	N	VAL A 336	24.569	24.383	45.646	1.00	53.89	A
ATOM	889	CA	VAL A 336	24.303	25.547	44.807	1.00	53.10	A
ATOM	890	CB	VAL A 336	22.795	25.778	44.575	1.00	52.40	A
ATOM	891	CG1	VAL A 336	22.210	24.701	43.664	1.00	55.16	A
ATOM	892	CG2	VAL A 336	22.076	25.800	45.916	1.00	49.37	A
ATOM	893	C	VAL A 336	24.824	26.816	45.422	1.00	55.02	A
ATOM	894	O	VAL A 336	25.015	26.904	46.630	1.00	62.47	A
ATOM	895	N	THR A 337	25.017	27.817	44.581	1.00	55.61	A
ATOM	896	CA	THR A 337	25.513	29.111	45.030	1.00	57.93	A
ATOM	897	CB	THR A 337	26.353	29.774	43.925	1.00	60.16	A
ATOM	898	OG1	THR A 337	25.497	30.104	42.823	1.00	61.06	A
ATOM	899	CG2	THR A 337	27.443	28.825	43.434	1.00	53.78	A
ATOM	900	C	THR A 337	24.311	30.002	45.327	1.00	56.03	A

ATOM	901	O	THR A 337	23.171	29.609	45.093	1.00	52.30	A
ATOM	902	N	ARG A 338	24.558	31.207	45.826	1.00	54.74	A
ATOM	903	CA	ARG A 338	23.448	32.096	46.119	1.00	55.82	A
ATOM	904	CB	ARG A 338	23.932	33.380	46.816	1.00	58.53	A
ATOM	905	CG	ARG A 338	22.781	34.335	47.209	1.00	60.96	A
ATOM	906	CD	ARG A 338	23.253	35.540	48.007	1.00	56.20	A
ATOM	907	NE	ARG A 338	24.087	35.136	49.136	1.00	64.47	A
ATOM	908	CZ	ARG A 338	23.869	35.495	50.403	1.00	69.58	A
ATOM	909	NH1	ARG A 338	22.832	36.272	50.709	1.00	62.53	A
ATOM	910	NH2	ARG A 338	24.695	35.080	51.368	1.00	69.39	A
ATOM	911	C	ARG A 338	22.723	32.443	44.826	1.00	56.44	A
ATOM	912	O	ARG A 338	21.499	32.302	44.729	1.00	56.22	A
ATOM	913	N	GLY A 339	23.484	32.875	43.828	1.00	55.66	A
ATOM	914	CA	GLY A 339	22.886	33.258	42.562	1.00	54.71	A
ATOM	915	C	GLY A 339	22.136	32.150	41.851	1.00	53.78	A
ATOM	916	O	GLY A 339	21.048	32.353	41.303	1.00	54.70	A
ATOM	917	N	GLN A 340	22.736	30.970	41.848	1.00	54.34	A
ATOM	918	CA	GLN A 340	22.145	29.810	41.202	1.00	56.84	A
ATOM	919	CB	GLN A 340	23.018	28.600	41.506	1.00	57.71	A
ATOM	920	CG	GLN A 340	23.479	27.803	40.320	1.00	58.53	A
ATOM	921	CD	GLN A 340	24.787	27.076	40.610	1.00	65.22	A
ATOM	922	OE1	GLN A 340	25.102	26.759	41.763	1.00	68.82	A
ATOM	923	NE2	GLN A 340	25.553	26.800	39.561	1.00	70.81	A
ATOM	924	C	GLN A 340	20.735	29.614	41.769	1.00	60.71	A
ATOM	925	O	GLN A 340	19.759	29.471	41.030	1.00	58.21	A
ATOM	926	N	LEU A 341	20.646	29.631	43.099	1.00	62.97	A
ATOM	927	CA	LEU A 341	19.383	29.451	43.790	1.00	60.40	A
ATOM	928	CB	LEU A 341	19.622	29.223	45.279	1.00	55.54	A
ATOM	929	CG	LEU A 341	18.367	28.865	46.077	1.00	55.46	A
ATOM	930	CD1	LEU A 341	17.872	27.524	45.581	1.00	47.49	A
ATOM	931	CD2	LEU A 341	18.652	28.803	47.576	1.00	47.22	A
ATOM	932	C	LEU A 341	18.484	30.661	43.607	1.00	62.75	A
ATOM	933	O	LEU A 341	17.262	30.521	43.496	1.00	65.97	A
ATOM	934	N	LYS A 342	19.074	31.853	43.582	1.00	59.38	A
ATOM	935	CA	LYS A 342	18.275	33.059	43.394	1.00	56.74	A
ATOM	936	CB	LYS A 342	19.147	34.307	43.492	1.00	56.45	A
ATOM	937	CG	LYS A 342	18.386	35.615	43.275	1.00	53.92	A
ATOM	938	CD	LYS A 342	18.718	36.612	44.375	1.00	60.31	A
ATOM	939	CE	LYS A 342	17.867	37.873	44.288	1.00	69.71	A
ATOM	940	NZ	LYS A 342	17.923	38.708	45.544	1.00	72.54	A
ATOM	941	C	LYS A 342	17.567	33.055	42.042	1.00	56.40	A

ATOM	942	O	LYS A 342	16.370	33.298	41.953	1.00	51.35	A
ATOM	943	N	ASN A 343	18.303	32.756	40.983	1.00	61.23	A
ATOM	944	CA	ASN A 343	17.707	32.770	39.656	1.00	65.73	A
ATOM	945	CB	ASN A 343	18.708	33.371	38.682	1.00	65.51	A
ATOM	946	CG	ASN A 343	19.273	34.670	39.200	1.00	65.13	A
ATOM	947	OD1	ASN A 343	18.554	35.669	39.336	1.00	58.94	A
ATOM	948	ND2	ASN A 343	20.560	34.661	39.530	1.00	67.71	A
ATOM	949	C	ASN A 343	17.201	31.425	39.164	1.00	65.78	A
ATOM	950	O	ASN A 343	16.754	31.308	38.027	1.00	67.31	A
ATOM	951	N	GLY A 344	17.268	30.419	40.032	1.00	63.42	A
ATOM	952	CA	GLY A 344	16.784	29.098	39.685	1.00	57.39	A
ATOM	953	C	GLY A 344	15.336	28.940	40.136	1.00	59.60	A
ATOM	954	O	GLY A 344	14.744	27.861	40.001	1.00	57.41	A
ATOM	955	N	GLY A 345	14.768	30.014	40.694	1.00	59.12	A
ATOM	956	CA	GLY A 345	13.379	29.980	41.127	1.00	54.24	A
ATOM	957	C	GLY A 345	12.966	30.503	42.499	1.00	56.69	A
ATOM	958	O	GLY A 345	11.762	30.661	42.752	1.00	56.05	A
ATOM	959	N	LEU A 346	13.925	30.768	43.388	1.00	55.93	A
ATOM	960	CA	LEU A 346	13.590	31.254	44.729	1.00	55.75	A
ATOM	961	CB	LEU A 346	14.466	30.585	45.779	1.00	51.77	A
ATOM	962	CG	LEU A 346	13.957	29.230	46.236	1.00	50.02	A
ATOM	963	CD1	LEU A 346	14.784	28.771	47.428	1.00	49.94	A
ATOM	964	CD2	LEU A 346	12.492	29.345	46.597	1.00	41.15	A
ATOM	965	C	LEU A 346	13.654	32.754	44.953	1.00	55.60	A
ATOM	966	O	LEU A 346	13.033	33.277	45.880	1.00	55.28	A
ATOM	967	N	GLY A 347	14.425	33.443	44.128	1.00	55.85	A
ATOM	968	CA	GLY A 347	14.533	34.879	44.283	1.00	56.77	A
ATOM	969	C	GLY A 347	15.274	35.318	45.534	1.00	58.55	A
ATOM	970	O	GLY A 347	16.327	34.768	45.887	1.00	55.53	A
ATOM	971	N	VAL A 348	14.709	36.313	46.214	1.00	57.63	A
ATOM	972	CA	VAL A 348	15.319	36.869	47.416	1.00	58.84	A
ATOM	973	CB	VAL A 348	14.575	38.169	47.832	1.00	60.10	A
ATOM	974	CG1	VAL A 348	13.242	37.828	48.515	1.00	52.44	A
ATOM	975	CG2	VAL A 348	15.469	39.027	48.714	1.00	62.22	A
ATOM	976	C	VAL A 348	15.365	35.863	48.588	1.00	58.50	A
ATOM	977	O	VAL A 348	16.144	36.026	49.539	1.00	51.76	A
ATOM	978	N	VAL A 349	14.533	34.827	48.509	1.00	52.30	A
ATOM	979	CA	VAL A 349	14.509	33.802	49.533	1.00	50.35	A
ATOM	980	CB	VAL A 349	13.437	32.747	49.202	1.00	53.58	A
ATOM	981	CG1	VAL A 349	13.507	31.583	50.192	1.00	48.15	A
ATOM	982	CG2	VAL A 349	12.050	33.404	49.265	1.00	57.02	A



ATOM	983	C	VAL A 349	15.900	33.160	49.636	1.00	48.52	A
ATOM	984	O	VAL A 349	16.364	32.795	50.730	1.00	40.34	A
ATOM	985	N	SER A 350	16.562	33.040	48.485	1.00	46.17	A
ATOM	986	CA	SER A 350	17.908	32.485	48.417	1.00	45.89	A
ATOM	987	CB	SER A 350	18.414	32.522	46.979	1.00	46.55	A
ATOM	988	OG	SER A 350	19.767	32.117	46.915	1.00	55.73	A
ATOM	989	C	SER A 350	18.835	33.296	49.325	1.00	46.30	A
ATOM	990	O	SER A 350	19.687	32.743	50.022	1.00	45.75	A
ATOM	991	N	ASP A 351	18.660	34.614	49.316	1.00	49.31	A
ATOM	992	CA	ASP A 351	19.456	35.500	50.158	1.00	52.57	A
ATOM	993	CB	ASP A 351	19.072	36.960	49.893	1.00	59.73	A
ATOM	994	CG	ASP A 351	19.575	37.476	48.536	1.00	66.87	A
ATOM	995	OD1	ASP A 351	18.870	38.326	47.938	1.00	63.02	A
ATOM	996	OD2	ASP A 351	20.671	37.055	48.074	1.00	70.64	A
ATOM	997	C	ASP A 351	19.175	35.147	51.615	1.00	50.21	A
ATOM	998	O	ASP A 351	20.093	34.981	52.412	1.00	49.12	A
ATOM	999	N	ALA A 352	17.888	35.007	51.935	1.00	50.16	A
ATOM	1000	CA	ALA A 352	17.411	34.676	53.279	1.00	44.58	A
ATOM	1001	CB	ALA A 352	15.901	34.664	53.297	1.00	33.80	A
ATOM	1002	C	ALA A 352	17.923	33.347	53.800	1.00	45.93	A
ATOM	1003	O	ALA A 352	18.340	33.239	54.954	1.00	47.01	A
ATOM	1004	N	ILE A 353	17.870	32.320	52.964	1.00	44.48	A
ATOM	1005	CA	ILE A 353	18.338	31.023	53.412	1.00	47.17	A
ATOM	1006	CB	ILE A 353	17.850	29.887	52.486	1.00	48.96	A
ATOM	1007	CG2	ILE A 353	18.401	28.536	52.972	1.00	43.45	A
ATOM	1008	CG1	ILE A 353	16.320	29.838	52.497	1.00	50.32	A
ATOM	1009	CD1	ILE A 353	15.722	28.901	51.467	1.00	48.42	A
ATOM	1010	C	ILE A 353	19.858	31.030	53.488	1.00	49.56	A
ATOM	1011	O	ILE A 353	20.450	30.408	54.370	1.00	44.70	A
ATOM	1012	N	PHE A 354	20.494	31.741	52.567	1.00	50.88	A
ATOM	1013	CA	PHE A 354	21.939	31.806	52.600	1.00	49.39	A
ATOM	1014	CB	PHE A 354	22.496	32.447	51.332	1.00	46.83	A
ATOM	1015	CG	PHE A 354	22.917	31.445	50.289	1.00	49.00	A
ATOM	1016	CD1	PHE A 354	22.049	31.067	49.267	1.00	46.58	A
ATOM	1017	CD2	PHE A 354	24.170	30.835	50.363	1.00	46.26	A
ATOM	1018	CE1	PHE A 354	22.420	30.096	48.340	1.00	47.66	A
ATOM	1019	CE2	PHE A 354	24.560	29.859	49.445	1.00	43.08	A
ATOM	1020	CZ	PHE A 354	23.683	29.488	48.430	1.00	51.07	A
ATOM	1021	C	PHE A 354	22.380	32.582	53.825	1.00	49.95	A
ATOM	1022	O	PHE A 354	23.334	32.188	54.491	1.00	48.59	A
ATOM	1023	N	ASP A 355	21.687	33.673	54.141	1.00	52.39	A

ATOM	1024	CA	ASP	A	355	22.063	34.447	55.318	1.00	57.94	A
ATOM	1025	CB	ASP	A	355	21.160	35.673	55.495	1.00	62.72	A
ATOM	1026	CG	ASP	A	355	21.411	36.747	54.434	1.00	75.40	A
ATOM	1027	OD1	ASP	A	355	22.593	36.941	54.056	1.00	75.51	A
ATOM	1028	OD2	ASP	A	355	20.436	37.404	53.983	1.00	80.24	A
ATOM	1029	C	ASP	A	355	21.949	33.535	56.531	1.00	59.53	A
ATOM	1030	O	ASP	A	355	22.889	33.414	57.331	1.00	61.27	A
ATOM	1031	N	LEU	A	356	20.803	32.870	56.642	1.00	55.26	A
ATOM	1032	CA	LEU	A	356	20.543	31.960	57.746	1.00	49.61	A
ATOM	1033	CB	LEU	A	356	19.180	31.293	57.562	1.00	44.60	A
ATOM	1034	CG	LEU	A	356	18.865	30.195	58.588	1.00	45.18	A
ATOM	1035	CD1	LEU	A	356	18.397	30.825	59.899	1.00	44.63	A
ATOM	1036	CD2	LEU	A	356	17.798	29.270	58.047	1.00	46.21	A
ATOM	1037	C	LEU	A	356	21.618	30.882	57.841	1.00	49.38	A
ATOM	1038	O	LEU	A	356	22.030	30.497	58.931	1.00	47.24	A
ATOM	1039	N	GLY	A	357	22.056	30.388	56.689	1.00	47.83	A
ATOM	1040	CA	GLY	A	357	23.059	29.348	56.674	1.00	49.22	A
ATOM	1041	C	GLY	A	357	24.348	29.820	57.292	1.00	53.01	A
ATOM	1042	O	GLY	A	357	24.867	29.198	58.215	1.00	54.50	A
ATOM	1043	N	MET	A	358	24.864	30.929	56.782	1.00	53.19	A
ATOM	1044	CA	MET	A	358	26.106	31.478	57.292	1.00	55.32	A
ATOM	1045	CB	MET	A	358	26.433	32.786	56.581	1.00	59.78	A
ATOM	1046	CG	MET	A	358	26.277	32.744	55.066	1.00	66.74	A
ATOM	1047	SD	MET	A	358	26.679	34.330	54.252	1.00	70.95	A
ATOM	1048	CE	MET	A	358	25.343	35.426	54.822	1.00	66.85	A
ATOM	1049	C	MET	A	358	25.921	31.739	58.778	1.00	58.01	A
ATOM	1050	O	MET	A	358	26.773	31.406	59.608	1.00	61.46	A
ATOM	1051	N	SER	A	359	24.784	32.341	59.099	1.00	57.20	A
ATOM	1052	CA	SER	A	359	24.420	32.680	60.467	1.00	55.71	A
ATOM	1053	CB	SER	A	359	22.993	33.247	60.461	1.00	59.25	A
ATOM	1054	OG	SER	A	359	22.529	33.541	61.763	1.00	68.89	A
ATOM	1055	C	SER	A	359	24.504	31.491	61.426	1.00	54.61	A
ATOM	1056	O	SER	A	359	24.850	31.649	62.600	1.00	58.81	A
ATOM	1057	N	LEU	A	360	24.197	30.303	60.916	1.00	55.70	A
ATOM	1058	CA	LEU	A	360	24.173	29.088	61.727	1.00	58.67	A
ATOM	1059	CB	LEU	A	360	23.195	28.077	61.120	1.00	56.93	A
ATOM	1060	CG	LEU	A	360	21.697	28.317	61.308	1.00	49.77	A
ATOM	1061	CD1	LEU	A	360	20.930	27.243	60.557	1.00	52.64	A
ATOM	1062	CD2	LEU	A	360	21.352	28.312	62.791	1.00	46.76	A
ATOM	1063	C	LEU	A	360	25.488	28.376	61.991	1.00	62.15	A
ATOM	1064	O	LEU	A	360	25.572	27.541	62.899	1.00	61.52	A

ATOM	1065	N	SER A 361	26.506	28.684	61.200	1.00	66.84	A
ATOM	1066	CA	SER A 361	27.810	28.051	61.360	1.00	66.95	A
ATOM	1067	CB	SER A 361	28.810	28.693	60.405	1.00	71.50	A
ATOM	1068	OG	SER A 361	28.260	28.793	59.094	1.00	74.61	A
ATOM	1069	C	SER A 361	28.252	28.260	62.794	1.00	67.63	A
ATOM	1070	O	SER A 361	28.666	27.337	63.490	1.00	64.80	A
ATOM	1071	N	SER A 362	28.127	29.501	63.228	1.00	71.85	A
ATOM	1072	CA	SER A 362	28.498	29.903	64.569	1.00	72.82	A
ATOM	1073	CB	SER A 362	28.229	31.400	64.697	1.00	72.03	A
ATOM	1074	OG	SER A 362	28.519	32.034	63.454	1.00	74.78	A
ATOM	1075	C	SER A 362	27.739	29.114	65.649	1.00	75.18	A
ATOM	1076	O	SER A 362	28.261	28.879	66.734	1.00	78.13	A
ATOM	1077	N	PHE A 363	26.510	28.699	65.346	1.00	75.33	A
ATOM	1078	CA	PHE A 363	25.683	27.948	66.295	1.00	66.95	A
ATOM	1079	CB	PHE A 363	24.241	27.912	65.817	1.00	63.35	A
ATOM	1080	CG	PHE A 363	23.483	29.134	66.147	1.00	57.46	A
ATOM	1081	CD1	PHE A 363	22.499	29.094	67.114	1.00	59.64	A
ATOM	1082	CD2	PHE A 363	23.780	30.345	65.528	1.00	57.07	A
ATOM	1083	CE1	PHE A 363	21.811	30.248	67.475	1.00	66.49	A
ATOM	1084	CE2	PHE A 363	23.103	31.512	65.875	1.00	56.61	A
ATOM	1085	CZ	PHE A 363	22.116	31.469	66.853	1.00	61.35	A
ATOM	1086	C	PHE A 363	26.141	26.524	66.561	1.00	68.10	A
ATOM	1087	O	PHE A 363	25.985	26.027	67.674	1.00	63.72	A
ATOM	1088	N	ASN A 364	26.672	25.859	65.537	1.00	70.31	A
ATOM	1089	CA	ASN A 364	27.152	24.496	65.701	1.00	72.43	A
ATOM	1090	CB	ASN A 364	28.307	24.495	66.700	1.00	78.05	A
ATOM	1091	CG	ASN A 364	28.741	23.096	67.095	1.00	87.91	A
ATOM	1092	OD1	ASN A 364	27.938	22.153	67.126	1.00	90.20	A
ATOM	1093	ND2	ASN A 364	30.019	22.954	67.423	1.00	93.66	A
ATOM	1094	C	ASN A 364	26.020	23.610	66.222	1.00	70.20	A
ATOM	1095	O	ASN A 364	26.022	23.224	67.384	1.00	72.29	A
ATOM	1096	N	LEU A 365	25.053	23.278	65.379	1.00	68.55	A
ATOM	1097	CA	LEU A 365	23.943	22.439	65.836	1.00	63.24	A
ATOM	1098	CB	LEU A 365	22.628	22.911	65.207	1.00	58.69	A
ATOM	1099	CG	LEU A 365	22.184	24.368	65.342	1.00	56.67	A
ATOM	1100	CD1	LEU A 365	20.935	24.556	64.496	1.00	51.23	A
ATOM	1101	CD2	LEU A 365	21.914	24.733	66.792	1.00	43.22	A
ATOM	1102	C	LEU A 365	24.140	20.969	65.479	1.00	60.83	A
ATOM	1103	O	LEU A 365	24.646	20.657	64.399	1.00	63.07	A
ATOM	1104	N	ASP A 366	23.755	20.062	66.372	1.00	56.42	A
ATOM	1105	CA	ASP A 366	23.855	18.645	66.039	1.00	52.50	A

ATOM	1106	CB	ASP	A	366	24.368	17.799	67.226	1.00	48.29	A
ATOM	1107	CG	ASP	A	366	23.466	17.856	68.453	1.00	48.92	A
ATOM	1108	OD1	ASP	A	366	22.273	18.194	68.322	1.00	51.01	A
ATOM	1109	OD2	ASP	A	366	23.957	17.536	69.561	1.00	49.38	A
ATOM	1110	C	ASP	A	366	22.490	18.137	65.532	1.00	49.49	A
ATOM	1111	O	ASP	A	366	21.530	18.903	65.426	1.00	43.04	A
ATOM	1112	N	ASP	A	367	22.419	16.852	65.204	1.00	48.49	A
ATOM	1113	CA	ASP	A	367	21.197	16.247	64.692	1.00	49.13	A
ATOM	1114	CB	ASP	A	367	21.385	14.732	64.552	1.00	55.52	A
ATOM	1115	CG	ASP	A	367	22.346	14.357	63.425	1.00	60.14	A
ATOM	1116	OD1	ASP	A	367	22.152	14.839	62.288	1.00	54.73	A
ATOM	1117	OD2	ASP	A	367	23.288	13.569	63.670	1.00	67.21	A
ATOM	1118	C	ASP	A	367	19.958	16.520	65.538	1.00	48.20	A
ATOM	1119	O	ASP	A	367	18.901	16.883	65.022	1.00	45.98	A
ATOM	1120	N	THR	A	368	20.109	16.336	66.840	1.00	48.52	A
ATOM	1121	CA	THR	A	368	19.028	16.532	67.788	1.00	47.94	A
ATOM	1122	CB	THR	A	368	19.497	16.192	69.220	1.00	43.13	A
ATOM	1123	OG1	THR	A	368	19.791	14.790	69.298	1.00	47.08	A
ATOM	1124	CG2	THR	A	368	18.437	16.554	70.237	1.00	31.63	A
ATOM	1125	C	THR	A	368	18.487	17.951	67.764	1.00	50.75	A
ATOM	1126	O	THR	A	368	17.270	18.170	67.691	1.00	50.02	A
ATOM	1127	N	GLU	A	369	19.386	18.923	67.822	1.00	49.57	A
ATOM	1128	CA	GLU	A	369	18.947	20.302	67.826	1.00	47.72	A
ATOM	1129	CB	GLU	A	369	20.159	21.200	68.014	1.00	46.89	A
ATOM	1130	CG	GLU	A	369	20.838	20.900	69.353	1.00	50.23	A
ATOM	1131	CD	GLU	A	369	22.172	21.601	69.511	1.00	52.06	A
ATOM	1132	OE1	GLU	A	369	22.949	21.632	68.533	1.00	55.77	A
ATOM	1133	OE2	GLU	A	369	22.452	22.105	70.615	1.00	47.63	A
ATOM	1134	C	GLU	A	369	18.147	20.621	66.570	1.00	46.78	A
ATOM	1135	O	GLU	A	369	17.026	21.131	66.666	1.00	47.62	A
ATOM	1136	N	VAL	A	370	18.701	20.295	65.404	1.00	42.13	A
ATOM	1137	CA	VAL	A	370	18.009	20.510	64.135	1.00	37.94	A
ATOM	1138	CB	VAL	A	370	18.872	20.012	62.957	1.00	30.90	A
ATOM	1139	CG1	VAL	A	370	18.055	19.961	61.654	1.00	22.91	A
ATOM	1140	CG2	VAL	A	370	20.058	20.929	62.806	1.00	30.41	A
ATOM	1141	C	VAL	A	370	16.661	19.768	64.145	1.00	41.47	A
ATOM	1142	O	VAL	A	370	15.626	20.328	63.745	1.00	41.48	A
ATOM	1143	N	ALA	A	371	16.682	18.518	64.612	1.00	37.62	A
ATOM	1144	CA	ALA	A	371	15.470	17.707	64.699	1.00	38.43	A
ATOM	1145	CB	ALA	A	371	15.787	16.312	65.231	1.00	26.49	A
ATOM	1146	C	ALA	A	371	14.449	18.386	65.612	1.00	40.54	A

ATOM	1147	O	ALA A 371	13.275	18.521	65.265	1.00	46.98	A
ATOM	1148	N	LEU A 372	14.883	18.817	66.785	1.00	40.40	A
ATOM	1149	CA	LEU A 372	13.951	19.453	67.686	1.00	40.19	A
ATOM	1150	CB	LEU A 372	14.657	19.813	68.988	1.00	40.55	A
ATOM	1151	CG	LEU A 372	14.818	18.631	69.945	1.00	43.81	A
ATOM	1152	CD1	LEU A 372	15.689	19.032	71.113	1.00	40.66	A
ATOM	1153	CD2	LEU A 372	13.451	18.163	70.432	1.00	40.89	A
ATOM	1154	C	LEU A 372	13.387	20.687	67.011	1.00	41.04	A
ATOM	1155	O	LEU A 372	12.202	20.985	67.100	1.00	42.14	A
ATOM	1156	N	LEU A 373	14.250	21.392	66.308	1.00	41.24	A
ATOM	1157	CA	LEU A 373	13.844	22.596	65.614	1.00	44.48	A
ATOM	1158	CB	LEU A 373	15.057	23.186	64.905	1.00	46.90	A
ATOM	1159	CG	LEU A 373	15.251	24.688	65.028	1.00	41.59	A
ATOM	1160	CD1	LEU A 373	14.941	25.172	66.410	1.00	39.66	A
ATOM	1161	CD2	LEU A 373	16.681	24.967	64.692	1.00	45.86	A
ATOM	1162	C	LEU A 373	12.740	22.282	64.602	1.00	43.78	A
ATOM	1163	O	LEU A 373	11.744	23.007	64.486	1.00	39.54	A
ATOM	1164	N	GLN A 374	12.926	21.203	63.857	1.00	41.00	A
ATOM	1165	CA	GLN A 374	11.932	20.825	62.878	1.00	43.04	A
ATOM	1166	CB	GLN A 374	12.426	19.633	62.070	1.00	41.52	A
ATOM	1167	CG	GLN A 374	13.632	19.976	61.252	1.00	39.98	A
ATOM	1168	CD	GLN A 374	14.268	18.773	60.573	1.00	39.35	A
ATOM	1169	OE1	GLN A 374	15.111	18.930	59.691	1.00	37.71	A
ATOM	1170	NE2	GLN A 374	13.872	17.573	60.978	1.00	31.94	A
ATOM	1171	C	GLN A 374	10.642	20.481	63.608	1.00	43.25	A
ATOM	1172	O	GLN A 374	9.545	20.817	63.145	1.00	39.30	A
ATOM	1173	N	ALA A 375	10.777	19.826	64.759	1.00	40.77	A
ATOM	1174	CA	ALA A 375	9.607	19.439	65.540	1.00	42.32	A
ATOM	1175	CB	ALA A 375	10.023	18.650	66.757	1.00	35.86	A
ATOM	1176	C	ALA A 375	8.845	20.683	65.965	1.00	44.17	A
ATOM	1177	O	ALA A 375	7.628	20.768	65.811	1.00	50.39	A
ATOM	1178	N	VAL A 376	9.560	21.660	66.495	1.00	37.35	A
ATOM	1179	CA	VAL A 376	8.905	22.864	66.921	1.00	36.06	A
ATOM	1180	CB	VAL A 376	9.892	23.823	67.538	1.00	41.54	A
ATOM	1181	CG1	VAL A 376	9.192	25.120	67.891	1.00	41.75	A
ATOM	1182	CG2	VAL A 376	10.488	23.194	68.786	1.00	42.95	A
ATOM	1183	C	VAL A 376	8.203	23.536	65.762	1.00	36.05	A
ATOM	1184	O	VAL A 376	7.056	23.965	65.878	1.00	35.35	A
ATOM	1185	N	LEU A 377	8.888	23.641	64.638	1.00	36.21	A
ATOM	1186	CA	LEU A 377	8.259	24.249	63.480	1.00	39.01	A
ATOM	1187	CB	LEU A 377	9.214	24.235	62.293	1.00	38.29	A

ATOM	1188	CG	LEU A 377	10.388	25.191	62.430	1.00	40.96	A
ATOM	1189	CD1	LEU A 377	11.362	24.952	61.296	1.00	43.39	A
ATOM	1190	CD2	LEU A 377	9.883	26.615	62.403	1.00	36.94	A
ATOM	1191	C	LEU A 377	6.977	23.496	63.113	1.00	35.81	A
ATOM	1192	O	LEU A 377	5.940	24.094	62.903	1.00	33.67	A
ATOM	1193	N	LEU A 378	7.065	22.174	63.053	1.00	40.31	A
ATOM	1194	CA	LEU A 378	5.931	21.336	62.691	1.00	39.88	A
ATOM	1195	CB	LEU A 378	6.339	19.859	62.742	1.00	38.07	A
ATOM	1196	CG	LEU A 378	5.233	18.825	62.473	1.00	41.96	A
ATOM	1197	CD1	LEU A 378	4.782	18.873	61.034	1.00	27.68	A
ATOM	1198	CD2	LEU A 378	5.756	17.441	62.797	1.00	36.56	A
ATOM	1199	C	LEU A 378	4.730	21.566	63.597	1.00	41.43	A
ATOM	1200	O	LEU A 378	3.612	21.759	63.127	1.00	40.28	A
ATOM	1201	N	MET A 379	4.966	21.556	64.902	1.00	39.79	A
ATOM	1202	CA	MET A 379	3.891	21.725	65.870	1.00	36.34	A
ATOM	1203	CB	MET A 379	4.300	21.069	67.189	1.00	34.37	A
ATOM	1204	CG	MET A 379	3.384	19.971	67.606	1.00	38.02	A
ATOM	1205	SD	MET A 379	3.033	18.845	66.250	1.00	50.71	A
ATOM	1206	CE	MET A 379	3.108	17.212	67.050	1.00	39.59	A
ATOM	1207	C	MET A 379	3.410	23.152	66.132	1.00	32.56	A
ATOM	1208	O	MET A 379	3.195	23.525	67.285	1.00	31.10	A
ATOM	1209	N	SER A 380	3.232	23.927	65.067	1.00	28.92	A
ATOM	1210	CA	SER A 380	2.749	25.314	65.156	1.00	39.23	A
ATOM	1211	CB	SER A 380	3.265	26.130	63.955	1.00	40.10	A
ATOM	1212	OG	SER A 380	4.678	26.185	63.912	1.00	44.47	A
ATOM	1213	C	SER A 380	1.196	25.387	65.185	1.00	41.30	A
ATOM	1214	O	SER A 380	0.540	25.060	64.187	1.00	45.95	A
ATOM	1215	N	SER A 381	0.602	25.835	66.291	1.00	34.40	A
ATOM	1216	CA	SER A 381	-0.859	25.878	66.353	1.00	39.56	A
ATOM	1217	CB	SER A 381	-1.328	25.682	67.782	1.00	33.98	A
ATOM	1218	OG	SER A 381	-0.881	26.745	68.573	1.00	38.26	A
ATOM	1219	C	SER A 381	-1.507	27.137	65.802	1.00	43.16	A
ATOM	1220	O	SER A 381	-2.673	27.410	66.076	1.00	48.79	A
ATOM	1221	N	ASP A 382	-0.762	27.892	65.011	1.00	48.10	A
ATOM	1222	CA	ASP A 382	-1.283	29.126	64.463	1.00	51.18	A
ATOM	1223	CB	ASP A 382	-0.254	30.257	64.648	1.00	52.88	A
ATOM	1224	CG	ASP A 382	1.018	30.032	63.840	1.00	60.13	A
ATOM	1225	OD1	ASP A 382	1.637	28.952	63.974	1.00	54.07	A
ATOM	1226	OD2	ASP A 382	1.398	30.939	63.066	1.00	66.18	A
ATOM	1227	C	ASP A 382	-1.671	28.984	62.993	1.00	54.96	A
ATOM	1228	O	ASP A 382	-2.162	29.957	62.388	1.00	56.25	A

ATOM	1229	N	ARG A 383	-1.449	27.792	62.420	1.00	55.25	A
ATOM	1230	CA	ARG A 383	-1.807	27.539	61.012	1.00	52.92	A
ATOM	1231	CB	ARG A 383	-1.292	26.181	60.498	1.00	47.86	A
ATOM	1232	CG	ARG A 383	0.130	25.765	60.891	1.00	44.10	A
ATOM	1233	CD	ARG A 383	1.232	26.660	60.362	1.00	44.45	A
ATOM	1234	NE	ARG A 383	2.554	26.055	60.560	1.00	48.87	A
ATOM	1235	CZ	ARG A 383	3.716	26.665	60.332	1.00	49.02	A
ATOM	1236	NH1	ARG A 383	4.859	26.024	60.537	1.00	51.41	A
ATOM	1237	NH2	ARG A 383	3.743	27.921	59.911	1.00	49.87	A
ATOM	1238	C	ARG A 383	-3.331	27.516	60.957	1.00	53.69	A
ATOM	1239	O	ARG A 383	-3.983	26.771	61.689	1.00	55.06	A
ATOM	1240	N	PRO A 384	-3.922	28.321	60.073	1.00	54.43	A
ATOM	1241	CD	PRO A 384	-3.302	29.043	58.952	1.00	56.01	A
ATOM	1242	CA	PRO A 384	-5.378	28.366	59.965	1.00	52.75	A
ATOM	1243	CB	PRO A 384	-5.600	29.451	58.934	1.00	50.91	A
ATOM	1244	CG	PRO A 384	-4.473	29.215	58.006	1.00	55.23	A
ATOM	1245	C	PRO A 384	-6.000	27.047	59.551	1.00	52.71	A
ATOM	1246	O	PRO A 384	-5.477	26.343	58.674	1.00	49.17	A
ATOM	1247	N	GLY A 385	-7.123	26.720	60.189	1.00	50.13	A
ATOM	1248	CA	GLY A 385	-7.818	25.489	59.875	1.00	42.58	A
ATOM	1249	C	GLY A 385	-7.662	24.384	60.899	1.00	43.25	A
ATOM	1250	O	GLY A 385	-8.480	23.468	60.933	1.00	48.96	A
ATOM	1251	N	LEU A 386	-6.632	24.448	61.735	1.00	40.55	A
ATOM	1252	CA	LEU A 386	-6.434	23.402	62.731	1.00	47.78	A
ATOM	1253	CB	LEU A 386	-5.149	23.624	63.529	1.00	39.98	A
ATOM	1254	CG	LEU A 386	-3.851	23.593	62.715	1.00	43.85	A
ATOM	1255	CD1	LEU A 386	-2.711	24.117	63.589	1.00	33.09	A
ATOM	1256	CD2	LEU A 386	-3.594	22.180	62.171	1.00	33.38	A
ATOM	1257	C	LEU A 386	-7.603	23.317	63.690	1.00	54.38	A
ATOM	1258	O	LEU A 386	-8.226	24.328	64.033	1.00	52.50	A
ATOM	1259	N	ALA A 387	-7.889	22.091	64.117	1.00	59.56	A
ATOM	1260	CA	ALA A 387	-8.973	21.820	65.047	1.00	59.55	A
ATOM	1261	CB	ALA A 387	-9.787	20.615	64.577	1.00	49.69	A
ATOM	1262	C	ALA A 387	-8.372	21.539	66.418	1.00	60.43	A
ATOM	1263	O	ALA A 387	-8.756	22.165	67.410	1.00	63.45	A
ATOM	1264	N	CYS A 388	-7.418	20.615	66.462	1.00	61.01	A
ATOM	1265	CA	CYS A 388	-6.769	20.233	67.719	1.00	63.12	A
ATOM	1266	CB	CYS A 388	-6.181	18.823	67.606	1.00	62.13	A
ATOM	1267	SG	CYS A 388	-7.351	17.593	67.015	1.00	67.20	A
ATOM	1268	C	CYS A 388	-5.671	21.208	68.126	1.00	59.48	A
ATOM	1269	O	CYS A 388	-4.535	20.817	68.417	1.00	63.80	A

ATOM	1270	N	VAL	A	389	-6.019	22.479	68.169	1.00	53.58	A
ATOM	1271	CA	VAL	A	389	-5.054	23.496	68.524	1.00	51.02	A
ATOM	1272	CB	VAL	A	389	-5.712	24.871	68.448	1.00	43.34	A
ATOM	1273	CG1	VAL	A	389	-4.743	25.941	68.872	1.00	44.16	A
ATOM	1274	CG2	VAL	A	389	-6.164	25.110	67.042	1.00	32.05	A
ATOM	1275	C	VAL	A	389	-4.371	23.308	69.882	1.00	48.45	A
ATOM	1276	O	VAL	A	389	-3.151	23.347	69.984	1.00	51.60	A
ATOM	1277	N	GLU	A	390	-5.160	23.105	70.920	1.00	49.33	A
ATOM	1278	CA	GLU	A	390	-4.630	22.919	72.263	1.00	53.88	A
ATOM	1279	CB	GLU	A	390	-5.803	22.766	73.242	1.00	57.61	A
ATOM	1280	CG	GLU	A	390	-6.661	21.515	73.012	1.00	80.21	A
ATOM	1281	CD	GLU	A	390	-7.121	21.324	71.547	1.00	90.51	A
ATOM	1282	OE1	GLU	A	390	-6.936	20.193	71.010	1.00	85.93	A
ATOM	1283	OE2	GLU	A	390	-7.672	22.288	70.943	1.00	92.50	A
ATOM	1284	C	GLU	A	390	-3.659	21.723	72.385	1.00	50.33	A
ATOM	1285	O	GLU	A	390	-2.641	21.792	73.097	1.00	47.29	A
ATOM	1286	N	ARG	A	391	-3.969	20.630	71.700	1.00	44.59	A
ATOM	1287	CA	ARG	A	391	-3.116	19.455	71.768	1.00	46.90	A
ATOM	1288	CB	ARG	A	391	-3.830	18.232	71.168	1.00	39.87	A
ATOM	1289	CG	ARG	A	391	-3.478	16.941	71.886	1.00	42.39	A
ATOM	1290	CD	ARG	A	391	-4.446	15.814	71.576	1.00	44.17	A
ATOM	1291	NE	ARG	A	391	-4.036	15.078	70.390	1.00	56.53	A
ATOM	1292	CZ	ARG	A	391	-4.868	14.506	69.521	1.00	61.89	A
ATOM	1293	NH1	ARG	A	391	-6.183	14.572	69.684	1.00	64.74	A
ATOM	1294	NH2	ARG	A	391	-4.375	13.872	68.470	1.00	68.65	A
ATOM	1295	C	ARG	A	391	-1.801	19.736	71.024	1.00	49.04	A
ATOM	1296	O	ARG	A	391	-0.708	19.353	71.479	1.00	44.26	A
ATOM	1297	N	ILE	A	392	-1.915	20.419	69.887	1.00	40.29	A
ATOM	1298	CA	ILE	A	392	-0.750	20.759	69.086	1.00	38.54	A
ATOM	1299	CB	ILE	A	392	-1.204	21.395	67.737	1.00	36.99	A
ATOM	1300	CG2	ILE	A	392	-0.049	22.103	67.033	1.00	23.50	A
ATOM	1301	CG1	ILE	A	392	-1.783	20.287	66.849	1.00	32.52	A
ATOM	1302	CD1	ILE	A	392	-2.443	20.778	65.586	1.00	33.28	A
ATOM	1303	C	ILE	A	392	0.165	21.673	69.901	1.00	42.71	A
ATOM	1304	O	ILE	A	392	1.392	21.563	69.843	1.00	43.20	A
ATOM	1305	N	GLU	A	393	-0.440	22.558	70.688	1.00	48.14	A
ATOM	1306	CA	GLU	A	393	0.323	23.449	71.547	1.00	48.44	A
ATOM	1307	CB	GLU	A	393	-0.569	24.530	72.128	1.00	49.26	A
ATOM	1308	CG	GLU	A	393	-0.381	25.868	71.451	1.00	61.46	A
ATOM	1309	CD	GLU	A	393	-1.591	26.762	71.604	1.00	65.05	A
ATOM	1310	OE1	GLU	A	393	-1.997	27.021	72.755	1.00	64.88	A



ATOM	1311	OE2	GLU	A	393	-2.141	27.205	70.574	1.00	70.06	A
ATOM	1312	C	GLU	A	393	0.967	22.659	72.667	1.00	46.78	A
ATOM	1313	O	GLU	A	393	2.079	22.964	73.070	1.00	49.26	A
ATOM	1314	N	LYS	A	394	0.271	21.639	73.164	1.00	49.40	A
ATOM	1315	CA	LYS	A	394	0.803	20.793	74.232	1.00	52.66	A
ATOM	1316	CB	LYS	A	394	-0.263	19.780	74.679	1.00	55.53	A
ATOM	1317	CG	LYS	A	394	0.197	18.737	75.714	1.00	63.43	A
ATOM	1318	CD	LYS	A	394	-0.859	17.643	75.871	1.00	70.72	A
ATOM	1319	CE	LYS	A	394	-0.300	16.349	76.450	1.00	71.96	A
ATOM	1320	NZ	LYS	A	394	-1.334	15.266	76.365	1.00	69.80	A
ATOM	1321	C	LYS	A	394	2.074	20.067	73.757	1.00	52.72	A
ATOM	1322	O	LYS	A	394	3.096	20.091	74.440	1.00	50.65	A
ATOM	1323	N	TYR	A	395	1.997	19.434	72.584	1.00	53.25	A
ATOM	1324	CA	TYR	A	395	3.123	18.711	71.981	1.00	51.79	A
ATOM	1325	CB	TYR	A	395	2.711	18.110	70.628	1.00	52.89	A
ATOM	1326	CG	TYR	A	395	1.618	17.065	70.663	1.00	51.53	A
ATOM	1327	CD1	TYR	A	395	0.942	16.704	69.497	1.00	52.03	A
ATOM	1328	CE1	TYR	A	395	-0.042	15.714	69.503	1.00	58.27	A
ATOM	1329	CD2	TYR	A	395	1.279	16.415	71.847	1.00	52.05	A
ATOM	1330	CE2	TYR	A	395	0.295	15.423	71.865	1.00	59.97	A
ATOM	1331	CZ	TYR	A	395	-0.362	15.074	70.689	1.00	61.01	A
ATOM	1332	OH	TYR	A	395	-1.310	14.068	70.689	1.00	57.24	A
ATOM	1333	C	TYR	A	395	4.297	19.663	71.734	1.00	50.46	A
ATOM	1334	O	TYR	A	395	5.465	19.343	71.988	1.00	47.94	A
ATOM	1335	N	GLN	A	396	3.985	20.836	71.210	1.00	46.75	A
ATOM	1336	CA	GLN	A	396	5.022	21.798	70.949	1.00	45.81	A
ATOM	1337	CB	GLN	A	396	4.431	23.012	70.276	1.00	40.47	A
ATOM	1338	CG	GLN	A	396	5.391	24.147	70.252	1.00	47.93	A
ATOM	1339	CD	GLN	A	396	5.030	25.150	69.209	1.00	52.17	A
ATOM	1340	OE1	GLN	A	396	4.248	26.067	69.452	1.00	56.66	A
ATOM	1341	NE2	GLN	A	396	5.581	24.972	68.017	1.00	44.57	A
ATOM	1342	C	GLN	A	396	5.756	22.215	72.222	1.00	43.91	A
ATOM	1343	O	GLN	A	396	6.977	22.123	72.296	1.00	45.07	A
ATOM	1344	N	ASP	A	397	5.018	22.677	73.221	1.00	44.12	A
ATOM	1345	CA	ASP	A	397	5.649	23.095	74.469	1.00	51.51	A
ATOM	1346	CB	ASP	A	397	4.606	23.480	75.529	1.00	47.98	A
ATOM	1347	CG	ASP	A	397	3.907	24.802	75.220	1.00	60.11	A
ATOM	1348	OD1	ASP	A	397	4.576	25.772	74.759	1.00	58.98	A
ATOM	1349	OD2	ASP	A	397	2.677	24.873	75.463	1.00	62.74	A
ATOM	1350	C	ASP	A	397	6.498	21.951	74.994	1.00	51.09	A
ATOM	1351	O	ASP	A	397	7.552	22.156	75.601	1.00	50.16	A

ATOM	1352	N	SER A 398	6.031	20.739	74.734	1.00	48.54	A
ATOM	1353	CA	SER A 398	6.721	19.546	75.181	1.00	46.84	A
ATOM	1354	CB	SER A 398	5.844	18.334	74.895	1.00	41.67	A
ATOM	1355	OG	SER A 398	6.104	17.297	75.810	1.00	51.55	A
ATOM	1356	C	SER A 398	8.087	19.407	74.491	1.00	49.48	A
ATOM	1357	O	SER A 398	9.074	19.022	75.132	1.00	44.27	A
ATOM	1358	N	PHE A 399	8.131	19.717	73.192	1.00	43.44	A
ATOM	1359	CA	PHE A 399	9.366	19.658	72.431	1.00	40.86	A
ATOM	1360	CB	PHE A 399	9.083	19.794	70.943	1.00	39.50	A
ATOM	1361	CG	PHE A 399	8.631	18.529	70.307	1.00	45.56	A
ATOM	1362	CD1	PHE A 399	7.422	18.474	69.624	1.00	49.66	A
ATOM	1363	CD2	PHE A 399	9.407	17.380	70.394	1.00	44.09	A
ATOM	1364	CE1	PHE A 399	6.987	17.284	69.033	1.00	49.39	A
ATOM	1365	CE2	PHE A 399	8.986	16.191	69.812	1.00	49.32	A
ATOM	1366	CZ	PHE A 399	7.772	16.141	69.129	1.00	45.08	A
ATOM	1367	C	PHE A 399	10.266	20.796	72.875	1.00	45.41	A
ATOM	1368	O	PHE A 399	11.451	20.605	73.144	1.00	48.37	A
ATOM	1369	N	LEU A 400	9.687	21.987	72.960	1.00	45.13	A
ATOM	1370	CA	LEU A 400	10.421	23.169	73.371	1.00	43.76	A
ATOM	1371	CB	LEU A 400	9.449	24.317	73.531	1.00	40.17	A
ATOM	1372	CG	LEU A 400	9.199	25.060	72.232	1.00	49.29	A
ATOM	1373	CD1	LEU A 400	8.022	26.000	72.424	1.00	46.81	A
ATOM	1374	CD2	LEU A 400	10.484	25.804	71.800	1.00	42.73	A
ATOM	1375	C	LEU A 400	11.196	22.999	74.664	1.00	43.72	A
ATOM	1376	O	LEU A 400	12.350	23.434	74.805	1.00	47.84	A
ATOM	1377	N	LEU A 401	10.537	22.371	75.618	1.00	43.73	A
ATOM	1378	CA	LEU A 401	11.127	22.146	76.915	1.00	45.96	A
ATOM	1379	CB	LEU A 401	10.054	21.614	77.858	1.00	42.25	A
ATOM	1380	CG	LEU A 401	10.372	21.767	79.337	1.00	44.34	A
ATOM	1381	CD1	LEU A 401	10.859	23.193	79.636	1.00	35.24	A
ATOM	1382	CD2	LEU A 401	9.130	21.414	80.125	1.00	34.36	A
ATOM	1383	C	LEU A 401	12.287	21.166	76.806	1.00	45.71	A
ATOM	1384	O	LEU A 401	13.383	21.429	77.295	1.00	43.85	A
ATOM	1385	N	ALA A 402	12.038	20.039	76.148	1.00	44.81	A
ATOM	1386	CA	ALA A 402	13.055	19.021	75.970	1.00	45.62	A
ATOM	1387	CB	ALA A 402	12.501	17.901	75.129	1.00	37.51	A
ATOM	1388	C	ALA A 402	14.260	19.658	75.280	1.00	50.42	A
ATOM	1389	O	ALA A 402	15.418	19.379	75.617	1.00	51.40	A
ATOM	1390	N	PHE A 403	13.959	20.525	74.316	1.00	48.98	A
ATOM	1391	CA	PHE A 403	14.951	21.243	73.522	1.00	45.64	A
ATOM	1392	CB	PHE A 403	14.202	22.082	72.469	1.00	44.19	A

ATOM	1393	CG	PHE A 403	15.075	22.628	71.360	1.00	41.36	A
ATOM	1394	CD1	PHE A 403	14.520	23.421	70.364	1.00	39.65	A
ATOM	1395	CD2	PHE A 403	16.430	22.320	71.283	1.00	39.42	A
ATOM	1396	CE1	PHE A 403	15.304	23.900	69.302	1.00	41.00	A
ATOM	1397	CE2	PHE A 403	17.211	22.788	70.237	1.00	34.68	A
ATOM	1398	CZ	PHE A 403	16.644	23.584	69.240	1.00	38.65	A
ATOM	1399	C	PHE A 403	15.805	22.155	74.413	1.00	46.51	A
ATOM	1400	O	PHE A 403	17.054	22.167	74.368	1.00	35.05	A
ATOM	1401	N	GLU A 404	15.092	22.923	75.220	1.00	44.88	A
ATOM	1402	CA	GLU A 404	15.701	23.868	76.123	1.00	52.18	A
ATOM	1403	CB	GLU A 404	14.607	24.577	76.878	1.00	59.71	A
ATOM	1404	CG	GLU A 404	14.931	25.980	77.226	1.00	67.87	A
ATOM	1405	CD	GLU A 404	13.761	26.608	77.915	1.00	76.94	A
ATOM	1406	OE1	GLU A 404	12.611	26.321	77.489	1.00	80.76	A
ATOM	1407	OE2	GLU A 404	13.984	27.379	78.871	1.00	80.18	A
ATOM	1408	C	GLU A 404	16.631	23.161	77.099	1.00	50.63	A
ATOM	1409	O	GLU A 404	17.689	23.672	77.455	1.00	47.88	A
ATOM	1410	N	HIS A 405	16.225	21.980	77.534	1.00	48.65	A
ATOM	1411	CA	HIS A 405	17.035	21.203	78.454	1.00	49.24	A
ATOM	1412	CB	HIS A 405	16.164	20.178	79.172	1.00	45.58	A
ATOM	1413	CG	HIS A 405	15.158	20.806	80.073	1.00	47.72	A
ATOM	1414	CD2	HIS A 405	15.011	22.094	80.467	1.00	47.17	A
ATOM	1415	ND1	HIS A 405	14.144	20.102	80.676	1.00	51.69	A
ATOM	1416	CE1	HIS A 405	13.414	20.928	81.403	1.00	50.85	A
ATOM	1417	NE2	HIS A 405	13.915	22.139	81.295	1.00	46.01	A
ATOM	1418	C	HIS A 405	18.184	20.521	77.743	1.00	49.97	A
ATOM	1419	O	HIS A 405	19.263	20.375	78.314	1.00	50.74	A
ATOM	1420	N	TYR A 406	17.958	20.105	76.496	1.00	50.77	A
ATOM	1421	CA	TYR A 406	19.013	19.462	75.738	1.00	46.57	A
ATOM	1422	CB	TYR A 406	18.525	19.002	74.371	1.00	39.93	A
ATOM	1423	CG	TYR A 406	19.613	18.277	73.610	1.00	39.17	A
ATOM	1424	CD1	TYR A 406	20.023	17.007	74.005	1.00	36.09	A
ATOM	1425	CE1	TYR A 406	21.057	16.339	73.340	1.00	41.75	A
ATOM	1426	CD2	TYR A 406	20.264	18.876	72.519	1.00	36.31	A
ATOM	1427	CE2	TYR A 406	21.296	18.216	71.840	1.00	42.29	A
ATOM	1428	CZ	TYR A 406	21.690	16.939	72.262	1.00	42.48	A
ATOM	1429	OH	TYR A 406	22.700	16.245	71.628	1.00	39.57	A
ATOM	1430	C	TYR A 406	20.116	20.493	75.545	1.00	49.50	A
ATOM	1431	O	TYR A 406	21.310	20.170	75.605	1.00	46.37	A
ATOM	1432	N	ILE A 407	19.693	21.732	75.297	1.00	46.52	A
ATOM	1433	CA	ILE A 407	20.608	22.846	75.106	1.00	46.09	A

ATOM	1434	CB	ILE A 407	19.820	24.117	74.674	1.00	49.42	A
ATOM	1435	CG2	ILE A 407	20.077	25.275	75.609	1.00	44.28	A
ATOM	1436	CG1	ILE A 407	20.220	24.509	73.265	1.00	43.33	A
ATOM	1437	CD1	ILE A 407	19.939	23.438	72.277	1.00	49.91	A
ATOM	1438	C	ILE A 407	21.375	23.104	76.405	1.00	46.62	A
ATOM	1439	O	ILE A 407	22.542	23.497	76.377	1.00	45.26	A
ATOM	1440	N	ASN A 408	20.727	22.880	77.545	1.00	46.00	A
ATOM	1441	CA	ASN A 408	21.398	23.095	78.826	1.00	50.81	A
ATOM	1442	CB	ASN A 408	20.448	22.917	80.013	1.00	47.01	A
ATOM	1443	CG	ASN A 408	19.527	24.101	80.204	1.00	49.77	A
ATOM	1444	OD1	ASN A 408	19.805	25.209	79.721	1.00	46.28	A
ATOM	1445	ND2	ASN A 408	18.430	23.885	80.920	1.00	43.44	A
ATOM	1446	C	ASN A 408	22.526	22.110	78.973	1.00	52.00	A
ATOM	1447	O	ASN A 408	23.569	22.412	79.554	1.00	60.75	A
ATOM	1448	N	TYR A 409	22.300	20.912	78.452	1.00	51.17	A
ATOM	1449	CA	TYR A 409	23.293	19.861	78.522	1.00	48.08	A
ATOM	1450	CB	TYR A 409	22.638	18.519	78.169	1.00	41.61	A
ATOM	1451	CG	TYR A 409	23.599	17.517	77.558	1.00	39.94	A
ATOM	1452	CD1	TYR A 409	24.652	17.002	78.293	1.00	34.71	A
ATOM	1453	CE1	TYR A 409	25.564	16.121	77.727	1.00	40.62	A
ATOM	1454	CD2	TYR A 409	23.478	17.123	76.224	1.00	38.70	A
ATOM	1455	CE2	TYR A 409	24.390	16.239	75.642	1.00	37.60	A
ATOM	1456	CZ	TYR A 409	25.432	15.741	76.406	1.00	42.75	A
ATOM	1457	OH	TYR A 409	26.334	14.846	75.869	1.00	48.84	A
ATOM	1458	C	TYR A 409	24.476	20.153	77.583	1.00	49.32	A
ATOM	1459	O	TYR A 409	25.642	19.988	77.959	1.00	44.05	A
ATOM	1460	N	ARG A 410	24.161	20.601	76.369	1.00	47.37	A
ATOM	1461	CA	ARG A 410	25.173	20.877	75.358	1.00	48.39	A
ATOM	1462	CB	ARG A 410	24.502	21.189	74.026	1.00	46.40	A
ATOM	1463	CG	ARG A 410	23.750	20.016	73.466	1.00	45.01	A
ATOM	1464	CD	ARG A 410	23.881	20.006	71.970	1.00	45.05	A
ATOM	1465	NE	ARG A 410	25.214	19.607	71.561	1.00	38.62	A
ATOM	1466	CZ	ARG A 410	25.765	19.942	70.400	1.00	45.76	A
ATOM	1467	NH1	ARG A 410	25.096	20.686	69.537	1.00	52.27	A
ATOM	1468	NH2	ARG A 410	26.986	19.532	70.091	1.00	54.75	A
ATOM	1469	C	ARG A 410	26.175	21.967	75.694	1.00	48.21	A
ATOM	1470	O	ARG A 410	27.354	21.854	75.352	1.00	48.42	A
ATOM	1471	N	LYS A 411	25.711	23.024	76.342	1.00	47.06	A
ATOM	1472	CA	LYS A 411	26.595	24.106	76.726	1.00	50.13	A
ATOM	1473	CB	LYS A 411	27.553	23.616	77.813	1.00	51.75	A
ATOM	1474	CG	LYS A 411	26.823	23.076	79.022	1.00	54.71	A

ATOM	1475	CD	LYS	A	411	27.581	23.335	80.309	1.00	53.81	A
ATOM	1476	CE	LYS	A	411	26.741	22.939	81.517	1.00	60.91	A
ATOM	1477	NZ	LYS	A	411	26.334	21.498	81.454	1.00	61.99	A
ATOM	1478	C	LYS	A	411	27.383	24.680	75.566	1.00	48.93	A
ATOM	1479	O	LYS	A	411	28.577	24.449	75.432	1.00	53.17	A
ATOM	1480	N	HIS	A	412	26.707	25.434	74.721	1.00	55.52	A
ATOM	1481	CA	HIS	A	412	27.371	26.049	73.580	1.00	60.92	A
ATOM	1482	CB	HIS	A	412	26.344	26.484	72.541	1.00	59.92	A
ATOM	1483	CG	HIS	A	412	25.719	25.346	71.811	1.00	53.99	A
ATOM	1484	CD2	HIS	A	412	24.858	24.390	72.222	1.00	58.11	A
ATOM	1485	ND1	HIS	A	412	26.009	25.066	70.498	1.00	57.29	A
ATOM	1486	CE1	HIS	A	412	25.353	23.980	70.127	1.00	57.55	A
ATOM	1487	NE2	HIS	A	412	24.648	23.552	71.158	1.00	59.53	A
ATOM	1488	C	HIS	A	412	28.100	27.274	74.068	1.00	62.40	A
ATOM	1489	O	HIS	A	412	27.612	27.963	74.966	1.00	58.55	A
ATOM	1490	N	HIS	A	413	29.265	27.548	73.487	1.00	67.81	A
ATOM	1491	CA	HIS	A	413	30.014	28.735	73.880	1.00	71.60	A
ATOM	1492	CB	HIS	A	413	31.514	28.529	73.696	1.00	78.46	A
ATOM	1493	CG	HIS	A	413	32.097	27.531	74.647	1.00	92.15	A
ATOM	1494	CD2	HIS	A	413	32.963	26.511	74.449	1.00	94.82	A
ATOM	1495	ND1	HIS	A	413	31.785	27.520	75.990	1.00	95.23	A
ATOM	1496	CE1	HIS	A	413	32.432	26.530	76.580	1.00	98.70	A
ATOM	1497	NE2	HIS	A	413	33.156	25.900	75.666	1.00	99.27	A
ATOM	1498	C	HIS	A	413	29.531	29.894	73.030	1.00	69.03	A
ATOM	1499	O	HIS	A	413	30.217	30.351	72.119	1.00	65.08	A
ATOM	1500	N	VAL	A	414	28.313	30.331	73.332	1.00	67.22	A
ATOM	1501	CA	VAL	A	414	27.655	31.433	72.652	1.00	65.09	A
ATOM	1502	CB	VAL	A	414	26.720	30.944	71.528	1.00	58.42	A
ATOM	1503	CG1	VAL	A	414	26.042	32.126	70.885	1.00	58.95	A
ATOM	1504	CG2	VAL	A	414	27.493	30.153	70.496	1.00	52.13	A
ATOM	1505	C	VAL	A	414	26.802	32.074	73.731	1.00	68.75	A
ATOM	1506	O	VAL	A	414	25.986	31.401	74.351	1.00	72.51	A
ATOM	1507	N	THR	A	415	26.993	33.363	73.973	1.00	71.38	A
ATOM	1508	CA	THR	A	415	26.212	34.023	75.002	1.00	72.41	A
ATOM	1509	CB	THR	A	415	26.778	35.424	75.313	1.00	75.48	A
ATOM	1510	OG1	THR	A	415	25.951	36.062	76.297	1.00	81.39	A
ATOM	1511	CG2	THR	A	415	26.853	36.283	74.049	1.00	70.58	A
ATOM	1512	C	THR	A	415	24.758	34.133	74.561	1.00	73.73	A
ATOM	1513	O	THR	A	415	24.479	34.434	73.400	1.00	70.49	A
ATOM	1514	N	HIS	A	416	23.833	33.863	75.481	1.00	77.40	A
ATOM	1515	CA	HIS	A	416	22.405	33.948	75.160	1.00	78.11	A

ATOM	1516	CB	HIS A 416	22.037	35.394	74.845	1.00	80.06	A
ATOM	1517	CG	HIS A 416	22.302	36.332	75.972	1.00	86.38	A
ATOM	1518	CD2	HIS A 416	22.060	36.225	77.302	1.00	86.91	A
ATOM	1519	ND1	HIS A 416	22.895	37.566	75.788	1.00	88.35	A
ATOM	1520	CE1	HIS A 416	23.005	38.176	76.957	1.00	90.16	A
ATOM	1521	NE2	HIS A 416	22.506	37.383	77.889	1.00	90.75	A
ATOM	1522	C	HIS A 416	22.086	33.069	73.960	1.00	73.82	A
ATOM	1523	O	HIS A 416	21.387	33.474	73.030	1.00	74.94	A
ATOM	1524	N	PHE A 417	22.609	31.857	73.996	1.00	68.18	A
ATOM	1525	CA	PHE A 417	22.410	30.917	72.921	1.00	61.39	A
ATOM	1526	CB	PHE A 417	23.221	29.661	73.198	1.00	52.42	A
ATOM	1527	CG	PHE A 417	23.101	28.644	72.135	1.00	51.21	A
ATOM	1528	CD1	PHE A 417	23.745	28.821	70.919	1.00	52.38	A
ATOM	1529	CD2	PHE A 417	22.287	27.534	72.316	1.00	52.01	A
ATOM	1530	CE1	PHE A 417	23.577	27.909	69.891	1.00	54.97	A
ATOM	1531	CE2	PHE A 417	22.111	26.614	71.299	1.00	51.70	A
ATOM	1532	CZ	PHE A 417	22.757	26.800	70.080	1.00	58.29	A
ATOM	1533	C	PHE A 417	20.943	30.545	72.677	1.00	60.22	A
ATOM	1534	O	PHE A 417	20.488	30.508	71.533	1.00	61.47	A
ATOM	1535	N	TRP A 418	20.200	30.266	73.739	1.00	56.14	A
ATOM	1536	CA	TRP A 418	18.808	29.888	73.572	1.00	54.91	A
ATOM	1537	CB	TRP A 418	18.208	29.509	74.921	1.00	57.64	A
ATOM	1538	CG	TRP A 418	16.800	29.032	74.826	1.00	69.10	A
ATOM	1539	CD2	TRP A 418	16.310	27.899	74.085	1.00	76.71	A
ATOM	1540	CE2	TRP A 418	14.921	27.823	74.308	1.00	77.69	A
ATOM	1541	CE3	TRP A 418	16.913	26.939	73.255	1.00	81.24	A
ATOM	1542	CD1	TRP A 418	15.720	29.576	75.442	1.00	70.03	A
ATOM	1543	NE1	TRP A 418	14.588	28.861	75.141	1.00	76.68	A
ATOM	1544	CZ2	TRP A 418	14.117	26.831	73.734	1.00	78.88	A
ATOM	1545	CZ3	TRP A 418	16.110	25.946	72.681	1.00	81.02	A
ATOM	1546	CH2	TRP A 418	14.727	25.904	72.927	1.00	80.58	A
ATOM	1547	C	TRP A 418	17.955	30.968	72.881	1.00	55.20	A
ATOM	1548	O	TRP A 418	17.201	30.671	71.951	1.00	50.99	A
ATOM	1549	N	PRO A 419	18.053	32.232	73.331	1.00	54.10	A
ATOM	1550	CD	PRO A 419	18.694	32.684	74.577	1.00	52.00	A
ATOM	1551	CA	PRO A 419	17.274	33.322	72.724	1.00	51.55	A
ATOM	1552	CB	PRO A 419	17.654	34.519	73.576	1.00	45.98	A
ATOM	1553	CG	PRO A 419	17.885	33.889	74.925	1.00	48.05	A
ATOM	1554	C	PRO A 419	17.640	33.523	71.257	1.00	54.36	A
ATOM	1555	O	PRO A 419	16.774	33.675	70.384	1.00	58.85	A
ATOM	1556	N	LYS A 420	18.942	33.522	71.009	1.00	54.17	A

ATOM	1557	CA	LYS A 420	19.511	33.681	69.682	1.00	53.31	A
ATOM	1558	CB	LYS A 420	21.021	33.515	69.809	1.00	57.21	A
ATOM	1559	CG	LYS A 420	21.855	34.275	68.819	1.00	61.68	A
ATOM	1560	CD	LYS A 420	22.645	35.352	69.546	1.00	62.41	A
ATOM	1561	CE	LYS A 420	23.432	34.801	70.717	1.00	60.93	A
ATOM	1562	NZ	LYS A 420	24.411	35.809	71.197	1.00	68.02	A
ATOM	1563	C	LYS A 420	18.953	32.622	68.714	1.00	52.00	A
ATOM	1564	O	LYS A 420	18.677	32.899	67.541	1.00	46.92	A
ATOM	1565	N	LEU A 421	18.795	31.404	69.221	1.00	53.15	A
ATOM	1566	CA	LEU A 421	18.303	30.297	68.416	1.00	54.23	A
ATOM	1567	CB	LEU A 421	18.543	28.974	69.149	1.00	49.21	A
ATOM	1568	CG	LEU A 421	18.303	27.678	68.372	1.00	50.87	A
ATOM	1569	CD1	LEU A 421	19.180	27.637	67.142	1.00	46.73	A
ATOM	1570	CD2	LEU A 421	18.583	26.483	69.273	1.00	48.35	A
ATOM	1571	C	LEU A 421	16.830	30.456	68.063	1.00	55.13	A
ATOM	1572	O	LEU A 421	16.462	30.400	66.891	1.00	57.78	A
ATOM	1573	N	LEU A 422	15.986	30.665	69.065	1.00	55.71	A
ATOM	1574	CA	LEU A 422	14.558	30.833	68.814	1.00	59.85	A
ATOM	1575	CB	LEU A 422	13.844	31.115	70.140	1.00	62.48	A
ATOM	1576	CG	LEU A 422	14.015	29.950	71.135	1.00	64.86	A
ATOM	1577	CD1	LEU A 422	13.741	30.412	72.546	1.00	57.83	A
ATOM	1578	CD2	LEU A 422	13.090	28.810	70.764	1.00	60.81	A
ATOM	1579	C	LEU A 422	14.282	31.937	67.767	1.00	62.11	A
ATOM	1580	O	LEU A 422	13.271	31.899	67.040	1.00	59.06	A
ATOM	1581	N	MET A 423	15.189	32.906	67.670	1.00	60.07	A
ATOM	1582	CA	MET A 423	15.035	33.971	66.682	1.00	61.18	A
ATOM	1583	CB	MET A 423	16.019	35.087	66.965	1.00	64.29	A
ATOM	1584	CG	MET A 423	15.448	36.118	67.892	1.00	76.54	A
ATOM	1585	SD	MET A 423	14.331	37.196	67.010	1.00	77.24	A
ATOM	1586	CE	MET A 423	15.351	38.695	66.980	1.00	79.50	A
ATOM	1587	C	MET A 423	15.245	33.457	65.262	1.00	60.70	A
ATOM	1588	O	MET A 423	14.780	34.057	64.290	1.00	57.98	A
ATOM	1589	N	LYS A 424	15.965	32.346	65.147	1.00	56.98	A
ATOM	1590	CA	LYS A 424	16.214	31.754	63.850	1.00	51.70	A
ATOM	1591	CB	LYS A 424	17.338	30.725	63.959	1.00	48.22	A
ATOM	1592	CG	LYS A 424	18.662	31.347	64.332	1.00	51.87	A
ATOM	1593	CD	LYS A 424	19.007	32.422	63.335	1.00	58.27	A
ATOM	1594	CE	LYS A 424	20.004	33.423	63.891	1.00	60.49	A
ATOM	1595	NZ	LYS A 424	20.061	34.613	62.979	1.00	71.94	A
ATOM	1596	C	LYS A 424	14.916	31.113	63.390	1.00	47.71	A
ATOM	1597	O	LYS A 424	14.619	31.031	62.193	1.00	42.26	A

ATOM	1598	N	VAL A 425	14.128	30.673	64.359	1.00	46.50	A
ATOM	1599	CA	VAL A 425	12.849	30.073	64.033	1.00	49.02	A
ATOM	1600	CB	VAL A 425	12.175	29.488	65.271	1.00	42.29	A
ATOM	1601	CG1	VAL A 425	10.806	28.980	64.900	1.00	29.89	A
ATOM	1602	CG2	VAL A 425	13.053	28.382	65.851	1.00	39.04	A
ATOM	1603	C	VAL A 425	11.952	31.145	63.417	1.00	50.33	A
ATOM	1604	O	VAL A 425	11.243	30.884	62.443	1.00	52.08	A
ATOM	1605	N	THR A 426	11.995	32.350	63.981	1.00	46.19	A
ATOM	1606	CA	THR A 426	11.195	33.442	63.444	1.00	45.62	A
ATOM	1607	CB	THR A 426	11.325	34.728	64.333	1.00	48.94	A
ATOM	1608	OG1	THR A 426	10.648	34.526	65.582	1.00	43.52	A
ATOM	1609	CG2	THR A 426	10.700	35.917	63.653	1.00	44.68	A
ATOM	1610	C	THR A 426	11.659	33.700	62.008	1.00	43.07	A
ATOM	1611	O	THR A 426	10.866	34.033	61.135	1.00	45.03	A
ATOM	1612	N	ASP A 427	12.945	33.522	61.753	1.00	41.16	A
ATOM	1613	CA	ASP A 427	13.459	33.719	60.408	1.00	43.54	A
ATOM	1614	CB	ASP A 427	14.982	33.669	60.403	1.00	45.98	A
ATOM	1615	CG	ASP A 427	15.594	34.813	61.153	1.00	53.57	A
ATOM	1616	OD1	ASP A 427	14.844	35.515	61.863	1.00	56.18	A
ATOM	1617	OD2	ASP A 427	16.825	35.007	61.042	1.00	61.27	A
ATOM	1618	C	ASP A 427	12.926	32.639	59.474	1.00	46.26	A
ATOM	1619	O	ASP A 427	12.504	32.918	58.353	1.00	40.59	A
ATOM	1620	N	LEU A 428	12.963	31.392	59.930	1.00	48.82	A
ATOM	1621	CA	LEU A 428	12.473	30.297	59.102	1.00	45.68	A
ATOM	1622	CB	LEU A 428	12.748	28.948	59.789	1.00	41.34	A
ATOM	1623	CG	LEU A 428	14.232	28.551	59.743	1.00	39.70	A
ATOM	1624	CD1	LEU A 428	14.519	27.566	60.828	1.00	33.42	A
ATOM	1625	CD2	LEU A 428	14.608	27.992	58.365	1.00	36.64	A
ATOM	1626	C	LEU A 428	10.979	30.517	58.836	1.00	48.60	A
ATOM	1627	O	LEU A 428	10.468	30.162	57.759	1.00	48.44	A
ATOM	1628	N	ARG A 429	10.280	31.125	59.795	1.00	41.14	A
ATOM	1629	CA	ARG A 429	8.864	31.394	59.594	1.00	43.70	A
ATOM	1630	CB	ARG A 429	8.194	31.862	60.884	1.00	47.00	A
ATOM	1631	CG	ARG A 429	7.907	30.776	61.891	1.00	52.65	A
ATOM	1632	CD	ARG A 429	7.319	31.378	63.154	1.00	63.67	A
ATOM	1633	NE	ARG A 429	6.177	30.606	63.634	1.00	75.91	A
ATOM	1634	CZ	ARG A 429	4.946	30.704	63.135	1.00	76.59	A
ATOM	1635	NH1	ARG A 429	4.684	31.545	62.143	1.00	81.70	A
ATOM	1636	NH2	ARG A 429	3.974	29.955	63.625	1.00	80.26	A
ATOM	1637	C	ARG A 429	8.728	32.469	58.522	1.00	42.50	A
ATOM	1638	O	ARG A 429	7.939	32.324	57.586	1.00	41.96	A



ATOM	1639	N	MET	A	430	9.507	33.542	58.649	1.00	41.09	A
ATOM	1640	CA	MET	A	430	9.463	34.617	57.659	1.00	46.32	A
ATOM	1641	CB	MET	A	430	10.523	35.668	57.970	1.00	50.91	A
ATOM	1642	CG	MET	A	430	10.300	36.371	59.293	1.00	62.55	A
ATOM	1643	SD	MET	A	430	9.246	37.824	59.158	1.00	68.56	A
ATOM	1644	CE	MET	A	430	7.629	37.097	58.827	1.00	69.65	A
ATOM	1645	C	MET	A	430	9.689	34.043	56.259	1.00	45.82	A
ATOM	1646	O	MET	A	430	8.937	34.342	55.326	1.00	47.68	A
ATOM	1647	N	ILE	A	431	10.726	33.222	56.115	1.00	42.96	A
ATOM	1648	CA	ILE	A	431	11.018	32.592	54.840	1.00	40.63	A
ATOM	1649	CB	ILE	A	431	12.166	31.571	54.973	1.00	37.08	A
ATOM	1650	CG2	ILE	A	431	12.201	30.646	53.757	1.00	27.99	A
ATOM	1651	CG1	ILE	A	431	13.482	32.333	55.119	1.00	32.20	A
ATOM	1652	CD1	ILE	A	431	14.676	31.517	55.560	1.00	30.59	A
ATOM	1653	C	ILE	A	431	9.749	31.895	54.370	1.00	43.15	A
ATOM	1654	O	ILE	A	431	9.270	32.126	53.256	1.00	40.14	A
ATOM	1655	N	GLY	A	432	9.203	31.047	55.233	1.00	41.48	A
ATOM	1656	CA	GLY	A	432	7.977	30.357	54.894	1.00	43.54	A
ATOM	1657	C	GLY	A	432	6.928	31.295	54.314	1.00	41.06	A
ATOM	1658	O	GLY	A	432	6.338	31.000	53.277	1.00	40.81	A
ATOM	1659	N	ALA	A	433	6.691	32.429	54.964	1.00	36.32	A
ATOM	1660	CA	ALA	A	433	5.693	33.363	54.458	1.00	37.60	A
ATOM	1661	CB	ALA	A	433	5.407	34.422	55.482	1.00	36.49	A
ATOM	1662	C	ALA	A	433	6.097	34.027	53.150	1.00	41.10	A
ATOM	1663	O	ALA	A	433	5.269	34.243	52.263	1.00	38.58	A
ATOM	1664	N	CYS	A	434	7.368	34.371	53.028	1.00	42.43	A
ATOM	1665	CA	CYS	A	434	7.807	35.033	51.821	1.00	44.44	A
ATOM	1666	CB	CYS	A	434	9.241	35.533	51.994	1.00	48.05	A
ATOM	1667	SG	CYS	A	434	9.900	36.349	50.528	1.00	55.05	A
ATOM	1668	C	CYS	A	434	7.700	34.080	50.645	1.00	42.88	A
ATOM	1669	O	CYS	A	434	7.284	34.456	49.548	1.00	41.41	A
ATOM	1670	N	HIS	A	435	8.074	32.834	50.878	1.00	45.82	A
ATOM	1671	CA	HIS	A	435	8.012	31.840	49.825	1.00	44.94	A
ATOM	1672	CB	HIS	A	435	8.629	30.537	50.310	1.00	46.26	A
ATOM	1673	CG	HIS	A	435	8.466	29.406	49.355	1.00	43.82	A
ATOM	1674	CD2	HIS	A	435	8.897	29.246	48.081	1.00	48.97	A
ATOM	1675	ND1	HIS	A	435	7.750	28.272	49.660	1.00	49.44	A
ATOM	1676	CE1	HIS	A	435	7.741	27.463	48.618	1.00	41.48	A
ATOM	1677	NE2	HIS	A	435	8.430	28.033	47.648	1.00	49.17	A
ATOM	1678	C	HIS	A	435	6.564	31.618	49.409	1.00	42.86	A
ATOM	1679	O	HIS	A	435	6.277	31.401	48.245	1.00	43.63	A

ATOM	1680	N	ALA A 436	5.654	31.680	50.371	1.00	44.41	A
ATOM	1681	CA	ALA A 436	4.236	31.497	50.092	1.00	45.93	A
ATOM	1682	CB	ALA A 436	3.448	31.497	51.395	1.00	41.52	A
ATOM	1683	C	ALA A 436	3.752	32.631	49.196	1.00	49.88	A
ATOM	1684	O	ALA A 436	3.088	32.409	48.173	1.00	51.90	A
ATOM	1685	N	SER A 437	4.081	33.849	49.609	1.00	49.09	A
ATOM	1686	CA	SER A 437	3.699	35.039	48.882	1.00	48.63	A
ATOM	1687	CB	SER A 437	4.272	36.268	49.590	1.00	51.24	A
ATOM	1688	OG	SER A 437	4.054	37.462	48.856	1.00	59.27	A
ATOM	1689	C	SER A 437	4.270	34.915	47.490	1.00	52.33	A
ATOM	1690	O	SER A 437	3.576	35.095	46.498	1.00	48.76	A
ATOM	1691	N	ARG A 438	5.549	34.577	47.442	1.00	59.29	A
ATOM	1692	CA	ARG A 438	6.266	34.433	46.195	1.00	67.66	A
ATOM	1693	CB	ARG A 438	7.678	33.913	46.467	1.00	74.99	A
ATOM	1694	CG	ARG A 438	8.566	33.843	45.235	1.00	78.84	A
ATOM	1695	CD	ARG A 438	9.772	34.749	45.413	1.00	83.75	A
ATOM	1696	NE	ARG A 438	10.353	35.172	44.143	1.00	87.26	A
ATOM	1697	CZ	ARG A 438	10.822	34.347	43.214	1.00	86.60	A
ATOM	1698	NH1	ARG A 438	10.779	33.033	43.411	1.00	86.65	A
ATOM	1699	NH2	ARG A 438	11.333	34.842	42.091	1.00	86.98	A
ATOM	1700	C	ARG A 438	5.553	33.492	45.239	1.00	72.34	A
ATOM	1701	O	ARG A 438	5.169	33.899	44.145	1.00	72.96	A
ATOM	1702	N	PHE A 439	5.371	32.238	45.650	1.00	78.13	A
ATOM	1703	CA	PHE A 439	4.727	31.265	44.788	1.00	80.96	A
ATOM	1704	CB	PHE A 439	4.602	29.903	45.456	1.00	81.31	A
ATOM	1705	CG	PHE A 439	3.881	28.899	44.607	1.00	90.80	A
ATOM	1706	CD1	PHE A 439	4.441	28.448	43.413	1.00	95.59	A
ATOM	1707	CD2	PHE A 439	2.617	28.434	44.968	1.00	93.09	A
ATOM	1708	CE1	PHE A 439	3.747	27.549	42.587	1.00	94.55	A
ATOM	1709	CE2	PHE A 439	1.916	27.534	44.149	1.00	95.75	A
ATOM	1710	CZ	PHE A 439	2.484	27.094	42.960	1.00	93.39	A
ATOM	1711	C	PHE A 439	3.358	31.689	44.296	1.00	84.14	A
ATOM	1712	O	PHE A 439	3.028	31.415	43.149	1.00	85.69	A
ATOM	1713	N	LEU A 440	2.558	32.350	45.133	1.00	86.55	A
ATOM	1714	CA	LEU A 440	1.223	32.775	44.698	1.00	89.94	A
ATOM	1715	CB	LEU A 440	0.371	33.205	45.890	1.00	85.84	A
ATOM	1716	CG	LEU A 440	0.059	32.094	46.884	1.00	86.59	A
ATOM	1717	CD1	LEU A 440	-0.854	32.658	47.951	1.00	88.05	A
ATOM	1718	CD2	LEU A 440	-0.598	30.914	46.183	1.00	83.45	A
ATOM	1719	C	LEU A 440	1.223	33.893	43.653	1.00	93.59	A
ATOM	1720	O	LEU A 440	0.314	33.957	42.822	1.00	93.53	A

ATOM	1721	N	ALA A 441	2.235	34.765	43.698	1.00	96.36	A
ATOM	1722	CA	ALA A 441	2.353	35.879	42.752	1.00	97.04	A
ATOM	1723	CB	ALA A 441	3.460	36.836	43.194	1.00	95.50	A
ATOM	1724	C	ALA A 441	2.654	35.352	41.357	1.00	97.70	A
ATOM	1725	O	ALA A 441	2.360	35.998	40.349	1.00	100.00	A
ATOM	1726	N	MET A 442	3.252	34.172	41.310	1.00	97.62	A
ATOM	1727	CA	MET A 442	3.600	33.537	40.052	1.00	98.54	A
ATOM	1728	CB	MET A 442	5.083	33.177	40.071	1.00	98.33	A
ATOM	1729	CG	MET A 442	5.418	31.769	39.652	1.00	96.70	A
ATOM	1730	SD	MET A 442	6.817	31.192	40.624	1.00	100.00	A
ATOM	1731	CE	MET A 442	8.154	32.215	39.973	1.00	100.00	A
ATOM	1732	C	MET A 442	2.731	32.294	39.913	1.00	100.00	A
ATOM	1733	O	MET A 442	2.663	31.685	38.846	1.00	100.00	A
ATOM	1734	N	LYS A 443	2.061	31.938	41.011	1.00	100.00	A
ATOM	1735	CA	LYS A 443	1.168	30.779	41.068	1.00	100.00	A
ATOM	1736	CB	LYS A 443	0.165	30.946	42.217	1.00	100.00	A
ATOM	1737	CG	LYS A 443	-0.967	29.923	42.241	1.00	100.00	A
ATOM	1738	CD	LYS A 443	-2.043	30.300	43.258	1.00	100.00	A
ATOM	1739	CE	LYS A 443	-2.655	31.655	42.939	1.00	100.00	A
ATOM	1740	NZ	LYS A 443	-3.776	31.975	43.859	1.00	98.52	A
ATOM	1741	C	LYS A 443	0.410	30.644	39.764	1.00	100.00	A
ATOM	1742	O	LYS A 443	0.298	29.551	39.207	1.00	100.00	A
ATOM	1743	N	VAL A 444	-0.115	31.767	39.286	1.00	100.00	A
ATOM	1744	CA	VAL A 444	-0.780	31.872	37.993	1.00	100.00	A
ATOM	1745	CB	VAL A 444	-2.287	31.951	38.222	1.00	100.00	A
ATOM	1746	CG1	VAL A 444	-3.021	31.570	36.940	1.00	100.00	A
ATOM	1747	CG2	VAL A 444	-2.683	30.987	39.325	1.00	100.00	A
ATOM	1748	C	VAL A 444	-0.298	33.051	37.117	1.00	100.00	A
ATOM	1749	O	VAL A 444	-1.079	33.848	36.613	1.00	100.00	A
ATOM	1750	N	GLU A 445	1.043	33.170	36.990	1.00	100.00	A
ATOM	1751	CA	GLU A 445	1.620	33.840	35.815	1.00	100.00	A
ATOM	1752	CB	GLU A 445	2.675	34.841	36.281	1.00	98.84	A
ATOM	1753	CG	GLU A 445	3.908	34.837	35.381	1.00	100.00	A
ATOM	1754	CD	GLU A 445	5.146	34.768	36.243	1.00	100.00	A
ATOM	1755	OE1	GLU A 445	5.454	35.752	36.895	1.00	100.00	A
ATOM	1756	OE2	GLU A 445	5.800	33.727	36.251	1.00	100.00	A
ATOM	1757	C	GLU A 445	2.252	32.763	34.956	1.00	100.00	A
ATOM	1758	O	GLU A 445	2.427	32.913	33.756	1.00	100.00	A
ATOM	1759	N	CYS A 446	2.554	31.647	35.666	1.00	100.00	A
ATOM	1760	CA	CYS A 446	3.073	30.427	35.063	1.00	100.00	A
ATOM	1761	CB	CYS A 446	4.339	30.026	35.820	1.00	100.00	A

ATOM	1762	SG	CYS A 446	5.813	30.846	35.173	1.00100.00	A
ATOM	1763	C	CYS A 446	2.053	29.291	35.135	1.00100.00	A
ATOM	1764	O	CYS A 446	1.106	29.307	35.911	1.00100.00	A
ATOM	1765	N	PRO A 447	2.252	28.298	34.252	1.00100.00	A
ATOM	1766	CD	PRO A 447	3.259	28.085	33.286	1.00100.00	A
ATOM	1767	CA	PRO A 447	1.380	27.142	34.270	1.00100.00	A
ATOM	1768	CB	PRO A 447	1.477	26.557	32.883	1.00100.00	A
ATOM	1769	CG	PRO A 447	2.391	27.498	32.196	1.00100.00	A
ATOM	1770	C	PRO A 447	1.865	26.123	35.289	1.00 98.97	A
ATOM	1771	O	PRO A 447	2.681	26.413	36.154	1.00 95.95	A
ATOM	1772	N	THR A 448	1.279	24.919	35.237	1.00 99.70	A
ATOM	1773	CA	THR A 448	1.605	23.845	36.221	1.00 99.23	A
ATOM	1774	CB	THR A 448	0.371	23.418	37.066	1.00 99.56	A
ATOM	1775	OG1	THR A 448	-0.074	22.079	36.808	1.00100.00	A
ATOM	1776	CG2	THR A 448	-0.794	24.385	36.855	1.00 94.47	A
ATOM	1777	C	THR A 448	2.370	22.686	35.594	1.00 99.93	A
ATOM	1778	O	THR A 448	2.861	21.763	36.272	1.00100.00	A
ATOM	1779	N	GLU A 449	2.408	22.781	34.244	1.00100.00	A
ATOM	1780	CA	GLU A 449	3.275	21.939	33.404	1.00 99.51	A
ATOM	1781	CB	GLU A 449	3.107	22.382	31.950	1.00 98.22	A
ATOM	1782	CG	GLU A 449	1.794	23.128	31.714	1.00 97.93	A
ATOM	1783	CD	GLU A 449	1.884	23.902	30.419	1.00100.00	A
ATOM	1784	OE1	GLU A 449	2.312	25.047	30.449	1.00100.00	A
ATOM	1785	OE2	GLU A 449	1.524	23.347	29.381	1.00100.00	A
ATOM	1786	C	GLU A 449	4.765	22.004	33.803	1.00 96.76	A
ATOM	1787	O	GLU A 449	5.602	21.266	33.300	1.00100.00	A
ATOM	1788	N	LEU A 450	5.111	22.963	34.704	1.00 94.52	A
ATOM	1789	CA	LEU A 450	6.506	23.217	35.064	1.00 87.56	A
ATOM	1790	CB	LEU A 450	6.670	24.741	35.135	1.00 83.91	A
ATOM	1791	CG	LEU A 450	6.865	25.397	33.762	1.00 81.16	A
ATOM	1792	CD1	LEU A 450	7.263	26.869	33.889	1.00 79.14	A
ATOM	1793	CD2	LEU A 450	7.986	24.743	32.936	1.00 75.99	A
ATOM	1794	C	LEU A 450	6.918	22.614	36.439	1.00 84.36	A
ATOM	1795	O	LEU A 450	8.073	22.359	36.712	1.00 85.62	A
ATOM	1796	N	PHE A 451	5.952	22.753	37.338	1.00 75.38	A
ATOM	1797	CA	PHE A 451	6.110	22.320	38.711	1.00 68.82	A
ATOM	1798	CB	PHE A 451	5.381	23.297	39.624	1.00 67.99	A
ATOM	1799	CG	PHE A 451	5.777	24.716	39.410	1.00 65.19	A
ATOM	1800	CD1	PHE A 451	4.987	25.567	38.649	1.00 68.67	A
ATOM	1801	CD2	PHE A 451	6.952	25.200	39.955	1.00 65.73	A
ATOM	1802	CE1	PHE A 451	5.360	26.886	38.435	1.00 68.53	A

ATOM	1803	CE2	PHE	A	451	7.335	26.513	39.749	1.00	72.47	A
ATOM	1804	CZ	PHE	A	451	6.535	27.362	38.986	1.00	68.63	A
ATOM	1805	C	PHE	A	451	5.676	20.905	39.050	1.00	63.96	A
ATOM	1806	O	PHE	A	451	4.593	20.462	38.677	1.00	65.17	A
ATOM	1807	N	PRO	A	452	6.525	20.175	39.788	1.00	61.03	A
ATOM	1808	CD	PRO	A	452	7.875	20.512	40.276	1.00	58.48	A
ATOM	1809	CA	PRO	A	452	6.159	18.808	40.154	1.00	56.03	A
ATOM	1810	CB	PRO	A	452	7.324	18.368	41.030	1.00	54.70	A
ATOM	1811	CG	PRO	A	452	8.485	19.145	40.462	1.00	57.23	A
ATOM	1812	C	PRO	A	452	4.831	18.811	40.913	1.00	55.07	A
ATOM	1813	O	PRO	A	452	4.582	19.672	41.761	1.00	52.45	A
ATOM	1814	N	PRO	A	453	3.961	17.837	40.616	1.00	55.27	A
ATOM	1815	CD	PRO	A	453	4.217	16.742	39.661	1.00	47.75	A
ATOM	1816	CA	PRO	A	453	2.644	17.697	41.249	1.00	52.97	A
ATOM	1817	CB	PRO	A	453	2.199	16.308	40.800	1.00	47.77	A
ATOM	1818	CG	PRO	A	453	2.843	16.169	39.449	1.00	51.69	A
ATOM	1819	C	PRO	A	453	2.652	17.833	42.779	1.00	53.93	A
ATOM	1820	O	PRO	A	453	1.768	18.467	43.365	1.00	56.52	A
ATOM	1821	N	LEU	A	454	3.649	17.237	43.430	1.00	50.21	A
ATOM	1822	CA	LEU	A	454	3.726	17.290	44.890	1.00	47.84	A
ATOM	1823	CB	LEU	A	454	4.792	16.326	45.403	1.00	41.77	A
ATOM	1824	CG	LEU	A	454	4.842	16.273	46.925	1.00	40.98	A
ATOM	1825	CD1	LEU	A	454	3.444	15.979	47.514	1.00	36.39	A
ATOM	1826	CD2	LEU	A	454	5.871	15.239	47.322	1.00	42.33	A
ATOM	1827	C	LEU	A	454	4.023	18.688	45.398	1.00	44.25	A
ATOM	1828	O	LEU	A	454	3.587	19.077	46.477	1.00	41.98	A
ATOM	1829	N	PHE	A	455	4.789	19.429	44.613	1.00	42.79	A
ATOM	1830	CA	PHE	A	455	5.125	20.785	44.965	1.00	46.03	A
ATOM	1831	CB	PHE	A	455	6.066	21.392	43.923	1.00	50.30	A
ATOM	1832	CG	PHE	A	455	6.395	22.825	44.179	1.00	51.77	A
ATOM	1833	CD1	PHE	A	455	7.443	23.172	45.024	1.00	52.13	A
ATOM	1834	CD2	PHE	A	455	5.624	23.835	43.609	1.00	54.15	A
ATOM	1835	CE1	PHE	A	455	7.713	24.509	45.299	1.00	53.68	A
ATOM	1836	CE2	PHE	A	455	5.884	25.174	43.878	1.00	51.59	A
ATOM	1837	CZ	PHE	A	455	6.930	25.515	44.724	1.00	47.67	A
ATOM	1838	C	PHE	A	455	3.818	21.555	44.989	1.00	44.34	A
ATOM	1839	O	PHE	A	455	3.561	22.307	45.923	1.00	45.40	A
ATOM	1840	N	LEU	A	456	2.989	21.342	43.967	1.00	40.50	A
ATOM	1841	CA	LEU	A	456	1.703	22.034	43.866	1.00	45.70	A
ATOM	1842	CB	LEU	A	456	1.070	21.822	42.482	1.00	42.34	A
ATOM	1843	CG	LEU	A	456	1.877	22.361	41.281	1.00	45.12	A

ATOM	1844	CD1	LEU	A	456	1.244	21.879	40.015	1.00	35.30	A
ATOM	1845	CD2	LEU	A	456	1.948	23.885	41.277	1.00	33.24	A
ATOM	1846	C	LEU	A	456	0.713	21.650	44.963	1.00	47.99	A
ATOM	1847	O	LEU	A	456	0.050	22.529	45.519	1.00	48.54	A
ATOM	1848	N	GLU	A	457	0.613	20.360	45.288	1.00	50.84	A
ATOM	1849	CA	GLU	A	457	-0.305	19.936	46.352	1.00	55.92	A
ATOM	1850	CB	GLU	A	457	-0.211	18.433	46.621	1.00	57.72	A
ATOM	1851	CG	GLU	A	457	-0.782	17.564	45.537	1.00	75.02	A
ATOM	1852	CD	GLU	A	457	-0.800	16.094	45.928	1.00	82.96	A
ATOM	1853	OE1	GLU	A	457	-1.331	15.274	45.143	1.00	80.20	A
ATOM	1854	OE2	GLU	A	457	-0.285	15.764	47.023	1.00	87.89	A
ATOM	1855	C	GLU	A	457	0.042	20.673	47.637	1.00	54.16	A
ATOM	1856	O	GLU	A	457	-0.837	21.108	48.384	1.00	55.09	A
ATOM	1857	N	VAL	A	458	1.337	20.822	47.876	1.00	51.49	A
ATOM	1858	CA	VAL	A	458	1.703	21.575	49.075	1.00	53.40	A
ATOM	1859	CB	VAL	A	458	3.152	21.243	49.437	1.00	52.31	A
ATOM	1860	CG1	VAL	A	458	3.459	21.720	50.858	1.00	49.19	A
ATOM	1861	CG2	VAL	A	458	3.373	19.744	49.355	1.00	47.72	A
ATOM	1862	C	VAL	A	458	1.501	23.104	48.959	1.00	52.60	A
ATOM	1863	O	VAL	A	458	0.708	23.699	49.675	1.00	49.59	A
ATOM	1864	N	PHE	A	459	2.280	23.757	48.058	1.00	51.41	A
ATOM	1865	CA	PHE	A	459	2.426	25.227	48.250	1.00	61.25	A
ATOM	1866	CB	PHE	A	459	3.818	25.632	47.762	1.00	47.74	A
ATOM	1867	CG	PHE	A	459	4.860	25.070	48.684	1.00	53.11	A
ATOM	1868	CD1	PHE	A	459	5.795	24.168	48.194	1.00	54.41	A
ATOM	1869	CD2	PHE	A	459	4.872	25.437	50.020	1.00	52.39	A
ATOM	1870	CE1	PHE	A	459	6.749	23.633	49.048	1.00	56.83	A
ATOM	1871	CE2	PHE	A	459	5.833	24.896	50.870	1.00	59.75	A
ATOM	1872	CZ	PHE	A	459	6.774	23.995	50.389	1.00	56.09	A
ATOM	1873	C	PHE	A	459	1.342	26.119	47.563	1.00	67.98	A
ATOM	1874	O	PHE	A	459	1.515	27.317	47.375	1.00	73.48	A
ATOM	1875	N	GLU	A	460	0.223	25.501	47.139	1.00	78.30	A
ATOM	1876	CA	GLU	A	460	-0.871	26.364	46.711	1.00	88.24	A
ATOM	1877	CB	GLU	A	460	-1.239	25.990	45.274	1.00	85.38	A
ATOM	1878	CG	GLU	A	460	-2.400	24.996	45.210	1.00	92.95	A
ATOM	1879	CD	GLU	A	460	-2.650	24.610	43.770	1.00	100.00	A
ATOM	1880	OE1	GLU	A	460	-3.122	23.508	43.532	1.00	100.00	A
ATOM	1881	OE2	GLU	A	460	-2.366	25.423	42.892	1.00	100.00	A
ATOM	1882	C	GLU	A	460	-2.094	26.215	47.618	1.00	94.79	A
ATOM	1883	O	GLU	A	460	-2.431	25.138	48.092	1.00	94.68	A
ATOM	1884	N	ASP	A	461	-2.745	27.362	47.888	1.00	98.89	A

ATOM	1885	CA	ASP	A	461	-3.926	27.336	48.742	1.00100.00	A
ATOM	1886	CB	ASP	A	461	-4.359	28.779	49.002	1.00 99.10	A
ATOM	1887	CG	ASP	A	461	-3.951	29.181	50.412	1.00100.00	A
ATOM	1888	OD1	ASP	A	461	-2.769	29.042	50.727	1.00100.00	A
ATOM	1889	OD2	ASP	A	461	-4.807	29.626	51.171	1.00100.00	A
ATOM	1890	C	ASP	A	461	-5.073	26.556	48.093	1.00100.00	A
ATOM	1891	O	ASP	A	461	-6.097	27.108	47.714	1.00100.00	A
ATOM	1892	OXT	ASP	A	461	-5.018	25.345	47.924	1.00100.00	A
ATOM	1893	O	HOH	W	1	16.426	11.337	46.104	1.00 53.20	W
ATOM	1894	O	HOH	W	2	-6.793	10.626	60.853	1.00 33.96	W
ATOM	1895	O	HOH	W	3	3.191	23.376	60.963	1.00 26.95	W
ATOM	1896	O	HOH	W	4	23.469	32.957	78.679	1.00 45.30	W
ATOM	1897	O	HOH	W	5	31.103	25.768	71.238	1.00 35.29	W
ATOM	1898	O	HOH	W	6	-0.007	15.682	50.255	1.00 57.65	W
ATOM	1899	O	HOH	W	7	-1.053	12.962	56.100	1.00 40.49	W
ATOM	1900	O	HOH	W	8	25.912	38.489	72.314	1.00 55.62	W
ATOM	1901	O	HOH	W	9	3.657	29.117	55.711	1.00 50.97	W
ATOM	1902	O	HOH	W	10	7.414	34.044	64.911	1.00 54.77	W
ATOM	1903	O	HOH	W	11	21.431	37.295	80.759	1.00 68.02	W
ATOM	1904	O	HOH	W	12	11.060	7.415	79.590	1.00 35.28	W
ATOM	1905	O	HOH	W	13	26.374	33.567	43.361	1.00 47.16	W
ATOM	1906	O	HOH	W	14	-2.668	7.036	69.704	1.00 40.61	W
ATOM	1907	O	HOH	W	15	-4.421	19.432	49.784	1.00 59.67	W
ATOM	1908	O	HOH	W	16	25.040	24.608	61.977	1.00 36.83	W
ATOM	1909	O	HOH	W	17	29.445	22.271	72.647	1.00 61.89	W
ATOM	1910	O	HOH	W	18	33.299	30.631	75.862	1.00 57.88	W
ATOM	1911	O	HOH	W	19	36.183	26.093	77.228	1.00 70.12	W
ATOM	1912	O	HOH	W	20	19.522	39.704	53.174	1.00 57.70	W
ATOM	1913	O	HOH	W	21	17.488	38.338	53.098	1.00 43.61	W
ATOM	1914	O	HOH	W	22	12.867	8.323	54.138	1.00 55.16	W
ATOM	1915	O	HOH	W	23	11.059	5.676	53.053	1.00 63.87	W
ATOM	1916	O	HOH	W	24	26.493	14.516	73.082	1.00 53.17	W
ATOM	1917	O	HOH	W	25	27.931	19.286	67.146	1.00 53.29	W
ATOM	1918	O	HOH	W	26	-4.789	29.658	46.539	1.00 82.25	W
ATOM	1919	O	HOH	W	27	8.091	19.200	35.982	1.00 49.49	W
ATOM	1920	O	HOH	W	28	27.958	34.763	71.982	1.00 59.41	W
ATOM	1921	O	HOH	W	29	13.279	30.271	79.195	1.00 64.57	W
ATOM	1922	O	HOH	W	30	16.181	1.142	70.755	1.00 61.01	W
ATOM	1923	O	HOH	W	31	7.168	7.288	57.772	1.00 51.76	W
ATOM	1924	O	HOH	W	32	9.992	11.536	45.966	1.00 52.72	W
ATOM	1925	O	HOH	W	33	25.479	22.222	60.994	1.00 55.22	W

ATOM	1926	O	HOH	W	34	29.016	23.174	70.564	1.00	48.84	W
ATOM	1927	O	HOH	W	35	28.838	26.242	70.268	1.00	53.14	W
ATOM	1928	O	HOH	W	36	35.773	34.313	49.557	1.00	69.99	W
ATOM	1929	O	HOH	W	37	8.734	29.269	43.634	1.00	55.50	W
ATOM	1930	O	HOH	W	38	-9.964	24.584	68.257	1.00	79.17	W
ATOM	1931	O	HOH	W	39	-4.088	13.496	75.745	1.00	65.63	W
ATOM	1932	O	HOH	W	40	1.084	16.939	51.964	1.00	36.52	W
ATOM	1933	CAF	GC2	L	400	12.261	25.035	41.974	1.00	59.17	L
ATOM	1934	CAB	GC2	L	400	11.849	23.926	41.209	1.00	62.30	L
ATOM	1935	CAC	GC2	L	400	10.495	23.545	41.185	1.00	59.25	L
ATOM	1936	CAD	GC2	L	400	9.551	24.276	41.933	1.00	63.66	L
ATOM	1937	CAH	GC2	L	400	9.960	25.388	42.701	1.00	57.82	L
ATOM	1938	CAG	GC2	L	400	11.322	25.766	42.721	1.00	56.34	L
ATOM	1939	CAQ	GC2	L	400	11.790	26.962	43.563	1.00	51.07	L
ATOM	1940	CAP	GC2	L	400	12.058	26.456	44.979	1.00	50.38	L
ATOM	1941	CAO	GC2	L	400	13.365	26.029	45.295	1.00	48.95	L
ATOM	1942	CBA	GC2	L	400	11.062	26.366	45.943	1.00	45.56	L
ATOM	1943	OBC	GC2	L	400	9.816	26.806	45.622	1.00	52.99	L
ATOM	1944	CAZ	GC2	L	400	11.345	25.840	47.225	1.00	42.73	L
ATOM	1945	CAY	GC2	L	400	12.659	25.407	47.542	1.00	42.34	L
ATOM	1946	CAN	GC2	L	400	13.673	25.505	46.570	1.00	47.37	L
ATOM	1947	CAM	GC2	L	400	15.151	25.108	46.852	1.00	49.27	L
ATOM	1948	CAL	GC2	L	400	15.331	23.817	47.691	1.00	47.62	L
ATOM	1949	CAX	GC2	L	400	15.660	23.877	49.075	1.00	44.53	L
ATOM	1950	CBB	GC2	L	400	15.833	25.229	49.775	1.00	36.80	L
ATOM	1951	CAW	GC2	L	400	15.842	22.710	49.827	1.00	46.18	L
ATOM	1952	CAK	GC2	L	400	15.195	22.522	47.110	1.00	53.81	L
ATOM	1953	CAE	GC2	L	400	14.831	22.371	45.623	1.00	50.32	L
ATOM	1954	CAJ	GC2	L	400	15.383	21.355	47.879	1.00	51.13	L
ATOM	1955	CAV	GC2	L	400	15.704	21.441	49.233	1.00	53.59	L
ATOM	1956	OAU	GC2	L	400	15.869	20.284	49.954	1.00	60.44	L
ATOM	1957	CAT	GC2	L	400	16.855	20.430	51.006	1.00	68.56	L
ATOM	1958	CAS	GC2	L	400	16.896	19.174	51.869	1.00	69.44	L
ATOM	1959	OAR	GC2	L	400	15.877	18.890	52.543	1.00	73.91	L
ATOM	1960	OAI	GC2	L	400	17.949	18.497	51.857	1.00	75.03	L
ATOM	1961	CAF	GC2	L	401	7.955	31.340	68.852	1.00	86.71	L
ATOM	1962	CAB	GC2	L	401	8.834	31.206	69.941	1.00	87.23	L
ATOM	1963	CAC	GC2	L	401	9.622	30.050	70.071	1.00	83.44	L
ATOM	1964	CAD	GC2	L	401	9.528	29.027	69.112	1.00	81.45	L
ATOM	1965	CAH	GC2	L	401	8.650	29.163	68.025	1.00	79.46	L
ATOM	1966	CAG	GC2	L	401	7.858	30.324	67.895	1.00	84.23	L



ATOM	1967	CAQ	GC2	L	401	6.875	30.479	66.721	1.00	87.35	L
ATOM	1968	CAP	GC2	L	401	5.794	29.395	66.838	1.00	89.18	L
ATOM	1969	CAO	GC2	L	401	4.488	29.765	67.281	1.00	79.62	L
ATOM	1970	CBA	GC2	L	401	6.047	28.038	66.540	1.00	92.03	L
ATOM	1971	OBC	GC2	L	401	7.289	27.666	66.099	1.00	100.00	L
ATOM	1972	CAZ	GC2	L	401	5.049	27.079	66.689	1.00	90.91	L
ATOM	1973	CAY	GC2	L	401	3.776	27.454	67.124	1.00	84.83	L
ATOM	1974	CAN	GC2	L	401	3.482	28.790	67.424	1.00	80.95	L
ATOM	1975	CAM	GC2	L	401	2.029	29.053	67.881	1.00	79.66	L
ATOM	1976	CAL	GC2	L	401	1.420	30.499	68.018	1.00	85.27	L
ATOM	1977	CAX	GC2	L	401	1.954	31.763	67.533	1.00	83.69	L
ATOM	1978	CBB	GC2	L	401	3.274	31.888	66.796	1.00	73.05	L
ATOM	1979	CAW	GC2	L	401	1.247	32.958	67.734	1.00	87.05	L
ATOM	1980	CAK	GC2	L	401	0.162	30.581	68.686	1.00	86.39	L
ATOM	1981	CAE	GC2	L	401	-0.491	29.315	69.238	1.00	89.68	L
ATOM	1982	CAJ	GC2	L	401	-0.518	31.781	68.872	1.00	87.38	L
ATOM	1983	CAV	GC2	L	401	0.010	32.964	68.400	1.00	91.42	L
ATOM	1984	OAU	GC2	L	401	-0.708	34.113	68.587	1.00	98.64	L
ATOM	1985	CAT	GC2	L	401	-0.677	34.991	67.432	1.00	99.71	L
ATOM	1986	CAS	GC2	L	401	-1.554	34.425	66.294	1.00	100.00	L
ATOM	1987	OAR	GC2	L	401	-1.957	33.239	66.389	1.00	100.00	L
ATOM	1988	OAI	GC2	L	401	-1.819	35.184	65.331	1.00	100.00	L

END